

TOSHIRO

TOSHIRO

PT. LINTAS SAHABAT ANTAR NIAGA

FIRE EXTINGUISHER ALARM SYSTEM EQUIPMENT



ISO 9001: 2015 ISO 14001: 2015 ISO 45001: 2018



TANDA SAH CAPAIAN TINGKAT KOMPONEN DALAM NEGERI

Sesuai dengan Peraturan Menteri Perindustrian No. 16/M-IND/PER/2/2011 tentang Ketentuan dan Tata Cara Penghitungan Tingkat Komponen Dalam Negeri, hasil verifikasi atas capaian Tingkat Komponen Dalam Negeri (TKDN) adalah sebagai berikut:

	APAR
:	Terlampir
:	Terlampir
:	84241090
:	Terlampir
:	Terlampir
:	Terlampir
:	
:.	
:	LPA-4795/PK-4399/PTKDNKOM-INFRAS/XII/22

yang telah ditandasahkan oleh Kementerian Perindustrian dan berlaku 3 tahun terhitung sejak tanggal tanda sah,

diberikan kepada:

Nama Perusahaan	:	PT. Lintas Sahabat Antar Niaga
Alamat	:	Ruko Cibinong Mansion Jl. Jakarta – Bogor Km 49 No. 9, Nanggewer Mekar - Bogor
NPWP	:	96.098.298.3-452
Jenis Industri	:	Industri Mesin untuk Keperluan Umum Lainnya YTDL (KBLI: 28199)
No. Tanda Sah	:	8032/SJ-IND.8/TKDN/12/2022

Jakarta, 23 Desember 2022

an Produk Dalam Negeri



#40306

LAMPIRAN

Halaman ke-1 dari 1 halaman

1.	Tipe
	Spesifikasi
	Merk
	Nilai TKDN
	Terbilang
	Standard Produk
	Sertifikat Produk
2.	Tipe
	Spesifikasi
	Merk
	Nilai TKDN
	Terbilang
	Standard Produk
	Sertifikat Produk

3 Kg : TOSHIRO ; CRICKET SAFETY : 23,22% : Dua puluh tiga koma dua dua persen : -: -: Karbondioksida : 5 Kg : TOSHIRO ; CRICKET SAFETY 23,14% Dua puluh tiga koma satu empat persen

Karbondioksida

:

:

:



TANDA SAH CAPAIAN TINGKAT KOMPONEN DALAM NEGERI

Sesuai dengan Peraturan Menteri Perindustrian No. 16/M-IND/PER/2/2011 tentang Ketentuan dan Tata Cara Penghitungan Tingkat Komponen Dalam Negeri, hasil verifikasi atas capaian Tingkat Komponen Dalam Negeri (TKDN) adalah sebagai berikut:

Jenis Produk	:	APAR
Tipe	:	Terlampir
Spesifikasi	:	Terlampir
Kode HS	:	84241090
Merk	:	Terlampir
Nilai TKDN	:	Terlampir
Terbilang	:	Terlampir
Standard Produk	:	-
Sertifikat Produk	:.	- Tarre to have
No. Laporan	:	LPA-4794/PK-4399/PTKDNKOM-INFRAS/XII/22

yang telah ditandasahkan oleh Kementerian Perindustrian dan berlaku 3 tahun terhitung sejak tanggal tanda sah,

diberikan kepada:

Nama Perusahaan	:	PT. Lintas Sahabat Antar Niaga
Alamat	:	Ruko Cibinong Mansion JL Jakarta – Bogor Km 49 No. 9, Nanggewer Mekar - Bogor
NPWP	:	96.098.298.3-452
Jenis Industri	:	Industri Mesin untuk Keperluan Umum Lainnya YTDL (KBLI: 28199)
No. Tanda Sah	:	8031/SJ-IND.8/TKDN/12/2022

Kepala Pusat Peningkatan



Jakarta, 23 Desember 2022

malasari

naan Produk Dalam Negeri

LAMPIRAN

Halaman ke-1 dari 2 halaman

- 1. Tipe Spesifikasi Merk Nilai TKDN Terbilang Standard Produk Sertifikat Produk 2. Tipe
- Spesifikasi Merk Nilai TKDN Terbilang Standard Produk Sertifikat Produk
- 3. Tipe Spesifikasi Merk Nilai TKDN Terbilang Standard Produk Sertifikat Produk
- 4. Tipe Spesifikasi Merk Nilai TKDN Terbilang Standard Produk Sertifikat Produk
- 5. Tipe Spesifikasi 1 7 Merk Nilai TKDN Terbilang
- Standard Produk Sertifikat Produk 6. Tipe Spesifikasi Merk Nilai TKDN Terbilang
 - Standard Produk Sertifikat Produk ,

-

.

:

-

0,5 Kg TOSHIRO ; CRICKET SAFETY 25,40% : Dua puluh lima koma empat nol persen : -Nitrogen :

Nitrogen

:

- 1 Kg TOSHIRO ; CRICKET SAFETY 25,39% Dua puluh lima koma tiga sembilan persen -
- Nitrogen 3 Kg TOSHIRO ; CRICKET SAFETY 24.70% Dua puluh empat koma tujuh nol persen -
- Nitrogen 4 Kg TOSHIRO ; CRICKET SAFETY 24,82% Dua puluh empat koma delapan dua persen -

Nitrogen 5 Kg TOSHIRO ; CRICKET SAFETY 25,06% Dua puluh lima koma nol enam persen . -

Nitrogen 6 Kg TOSHIRO ; CRICKET SAFETY 25.18% Dua puluh lima koma satu delapan persen

TOSHIRO

LAMPIRAN

Halaman ke-2 dari 2 halaman

7.	Tipe
	Spesifikasi
	Merk
	Nilai TKDN
	Terbilang
	Standard Produk
	Sertifikat Produk
8.	Tipe
	Spesifikasi
	Merk
	Nilai TKDN
	Terbilang
	Standard Produk
	Sertifikat Produk

Nitrogen



PENINGKATAN PENGGUNAAN PRODUK DALAM NEGERI

HOME SERTIFIKAT REKAPITULASI FAQ REGULASI VIDEO REFERENSI

Detail Sertifikat TKDN

Perusahaan	PT. Lintas Sahabat Antar Niaga								
No. Sertifikat	8031/SJ-IND.8/TKDN/12/2022								
Fanggal	23 Desember 2022								
Hasil Produksi	Industri Mesin untuk Keperluan Umum Lainnya YTDL								
Kode HS	84241090	84241090							
No Referensi	TKDN - 22 - 40298								
/erifikator	PT. Surveyor Indonesia								
Jenis Produk	Merk dan Tipe	Spesifikasi	Standard	TKDN					
Apar	TOSHIRO ; CRICKET SAFETY Nitrogen	0,5 Kg		25.40%					
Apar	TOSHIRO ; CRICKET SAFETY Nitrogen	1 Kg	-	25.39%					
Apar	TOSHIRO ; CRICKET SAFETY Nitrogen	3 Кg	~	24.70%					
Apar	TOSHIRO ; CRICKET SAFETY Nitrogen	4 Kg		24:82%					
Apar	TOSHIRO ; CRICKET SAFETY Nitrogen	5 Kg		25.06%					
Apar	TOSHIRO ; CRICKET SAFETY Nitrogen	6 Kg	а. С	25.18%					
Apar	TOSHIRO ; CRICKET SAFETY Nitrogen	9 Kg	ст.	22.78%					
Apar	TOSHIRO ; CRICKET SAFETY Nitrogen	25 Kg		14.27%					

P3DN DAFTAR INVENTARISASI BARANG/JASA PRODUKSI DALAM NEGERI

PENINGKATAN PENGGUNAAN PRODUK DALAM NEGERI

HOME SERTIFIKAT REKAPITULASI FAQ REGULASI VIDEO REFERENSI

Detail Sertifikat TKDN

Perusahaan	PT. Lintas Sahabat Antar Nia	iga								
No. Sertifikat	8032/SJ-IND.8/TKDN/12/2022									
Tanggal	23 Desember 2022	23 Desember 2022								
Hasil Produksi	Industri Mesin untuk Keper	Industri Mesin untuk Keperluan Umum Lainnya YTDL								
Kode HS	84241090	84241090								
No Referensi	TKDN - 22 - 40306									
verifikator	PT. Surveyor Indonesia									
Jenis Produk	Merk dan Tipe	Spesifikasi	Standard	TKDN						
Apar	TOSHIRO ; CRICKET SAFETY Karbondioksida	3 Кд	÷	23.22%						
Apar	TOSHIRO ; CRICKET SAFETY Karbondioksida	5 Kg	-	23.14%						



TOSHIRO

UJI LABOLATORIUM

APAR



PEMERINTAH PROVINSI DKI JAKARTA DINAS PENANGGULANGAN KEBAKARAN DANPENYELAMATAN **LABORATORIUM KEBAKARAN DANPENYELAMATAN** JI. Raya Ciracas No. 113 Jakarta Timur Telepon (021) 8721909,2962 7617/ Fax (021) 8721909 Website :www.jakartafire.net, E-Maii :labdamkar@jakarta.go.id,labkar113@gmail.com J A K A R T A

Kode Pos : 13740

Halaman 1 dari 4

LAPORAN HASIL UJI

Nomo	or		: 1	47 / LHU / X	11/2020						
Contoh Uji					m Api Ringan (APAR)					
				- Jenis ABC Dry Chemical Powder ukuran 3 kg, 5 kg, 6 kg dan 20 kg							
					kuran 3 kg, 5 kg	, 7 kg dan	25 kg				
.		T = 2 = 1		merek "TOSH							
		Terima		: 30 November 2020							
Node	00	ntoh Uji		: APR/258/06-1/XI/2020, APR/259/06-2/XI/2020, APR/260/06-3/XI/2020, APR/261/06-4/XI/2020, APR/262/06-5/XI/2020, APR/263/06-6/XI/2020,							
				APR/261/06-4/XI/2020, APR/262/06-5/XI/2020, APR/263/06-6/XI/2020, APR/264/06-7/XI/2020 dan APR/265/06-8/XI/2020							
Tang	gal	Pengujian		11 Desember							
		emohon	:	PT. Lintas Sahabat Antar Niaga							
		Utama			IK 3201132506						
Alama	at		:		ng Mansion JI I	Raya Jaka	rta-Bogor K	M 49 No.9			
					Mekar - Bogor						
				Tlp. 021 837							
Intuk	k Ke	perluan			an@lisan.co.id Jji Lab Damkar						
		sampai dengan		Desembe							
			<u> </u>								
		lisi Pengujian									
		Kondisi angin			kecepatan 0,98	3 m/detik					
		Suhu Udara			32,5°C						
		Efektifitas			pemadaman be	erhasil					
1	.4.	Flash back sar									
1.	.5.	Daya padam + 5 potong	3A kay	ru 96 potong	ukuran 4x6x	65 cm der	ngan susuna	an 13 susun @ 7 potong			
1	.6.	Daya padam	4A kay	u 104 potong	ukuran 4x6x	80 cm der	ngan susuna	n 13 susun @ 8 potong			
1	.7.	Daya padam	5A kay	u 121 potong	ukuran 4x6x	90 cm der	ngan susuna	n 13 susun @ 9 potong			
1	.8.	+ 4 potong									
1	.9.	Daya padam	12A kay	u 226 potong	ukuran 4x6x	110 cm de	engan susun	an 17 susun @ 13 potor			
		+ 5 potong									
1	.10.	Daya padam 1	B baha	an bakar miny	ak 6 liter denga	in ukuran b	ak 45 x 45 x	< 30 cm			
1	.11.	Daya padam 3	B baha	an bakar miny	ak 18 liter deng	an ukuran	bak 80 x 80	x 30 cm			
1	.12.	Daya padam 5	Bbaha	an bakar miny	ak 30 liter deng	an ukuran	bak 100 x 1	00 x 30 cm			
1	.13.	Daya padam 1	0 B bah	nan bakar min	yak 60 liter der	igan ukurai	n bak 150 x	150 x 30 cm			
1	.14.	Daya padam 1	2 B bat	nan bakar min	vak 72 liter der	igan ukurai	n bak 155 x	155 x 30 cm			
		Daya padam 1									
		Daya padam 4				-					
		Kelas C : men									
2. H	lasil	Uji									
2	2.1.	Hasil Uji Sifat	Fisik Ba	han							
	No.		Paramete		Satuan	Hasil	Syarat	Metode Uji/Teknik			
-	A A	ABC Dry Chemica			Guidan	11001	ojului				
-	1.	Uji Berat Jenis	i i owuer	and the second	gr / cm ³	1,03					
-					gr/cm						
-	2.	Uji Kadar Air				0,24					
1	3.	Uji Berat Isi Gemb	ur		gr / cm ³	0,92					
4	4.	Uji Berat Isi Padat			gr / cm ³	1,00	-				



TOSHIRO UJI LABOLATORIUM

JAYA RAYA

PEMERINTAH PROVINSI DKI JAKARTA DINAS PENANGGULANGAN KEBAKARAN DANPENYELAMATAN **LABORATORIUM KEBAKARAN DANPENYELAMATAN** JI. Raya Ciracas No. 113 Jakarta Timur Telepon (021) 8721909,2962 7617/ Fax (021) 8721909 Website :www.jakartafire.net, E-Maii :labdamkar@jakarta.go.id,labkar113@gmail.com J A K A R T A

Kode Pos : 13740

APAR

Halaman 2 dari 4 Nomor : 147 / LHU / XII / 2020

No.	Parameter	۱ I	Waktu Pemadan	Motodo Lili/Toknik	
NO.	Parameter	Satuan	Hasil	Syarat	Metode Uji/Teknik
1.	Uji Kelas A Jenis ABC Dry Chemical Powder				SK Gubernur No. 99 Tahun 2004;
	- 3 kg : daya padam 3A	detik	11,38		SOP Teknis No. 264/2005
	- 5 kg : daya padam 4A	detik	26,7	-	Etcliffer Demoderne
	- 6 kg : daya padam 5A - 20 kg : daya padam 12A	detik detik	45,48 17,15		 Efektifitas Pemadaman berhasil
	- 20 kg : daya padam 12A	deuk	17,15		- Flash back sampai 1
2.	Uji Kelas B				menit : tidak ada
	Jenis ABC Dry Chemical Powder				
	- 3 kg : daya padam 10B	detik	5,10		
	- 5 kg : daya padam 12B	detik	5,00	-	
	- 6 kg : daya padam 15B - 20 kg : daya padam 40B	detik detik	5,00 8,40	-	
	Jenis CO ₂	ucuk	0,40	-	
		detik	1.04		
	- 5 kg : dava padam 3B	detik	1,04 3,82	1	
	- 7 kg : daya padam 5B	detik	2,77	-	
	- 25 kg : daya padam 12B	detik	8,27	-	4
3.	Persentase Berat Bahan Terpakai	Persentase Media Terpakai			
		Satuan	Hasil	Syarat	
	Uji Kelas A				
	Jenis ABC Dry Chemical Powder				
	- 3 kg	%	24,44		
	- 5 kg	%	65,15	-	
	- 6 kg - 20 kg	%	69,88 29,57	-	
	- 20 kg	%	29,57		
	Uji Kelas B				
	Jenis ABC Dry Chemical Powder				
	- 3 kg	%	39,13	-	
	- 5 kg - 6 kg	%	40,91 32,53	-	
	- 20 kg	%	32,53	-	
	Jenis CO ₂				
	- 3 kg	%	2,97	-	
	- 5 kg	%	10,18	-	
	- 7 kg	%	4,72 5,36	-	
	- 25 kg	70	0,30	-	
4.	Uji Kelas C		Tidak menghantar	< 10 mA	
	Jenis ABC Dry Chemical Powder		arus listrik		



UJI LABOLATORIUM

APAR



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Kode Pos : 13740

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3. Foto Pengujian

3.1. Kelas A

3.1.1. ABC Dry Chemical Powder ukuran 3 kg, 5 kg, 6 kg dan 20 kg





Saat pernadaman

Pemadaman selesai/api padam

3.2. Kelas B

3.2.1. ABC Dry Chemical Powder ukuran 3 kg, 5 kg, 6 kg, 20 kg dan CO2 ukuran 3 kg, 5 kg, 7 kg, 25 kg



Awal pra pembakaran



Saat pemadaman Pemadama

Pemadaman selesai/api padam

3.3. Kelas C



Saat pengujian berlangsung



TOSHIRO

UJI LABOLATORIUM

APAR



PEMERINTAH PROVINSI DKI JAKARTA DINAS PENANGGULANGAN KEBAKARAN DANPENYELAMATAN LABORATORIUM KEBAKARAN DANPENYELAMATAN JI. Raya Ciracas No. 113 Jakarta Timur Telepon (021) 8721909,2962 7617/ Fax (021) 8721909 Website :www.jakartafire.net, E-Mail :labdamkar@jakarta.go.id,labkar113@gmail.com JAKARTA

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4. Kesimpulan

- 4.1. Contoh uji memenuhi syarat sesuai parameter dari metode uji yang digunakan
 4.2. Daya padam ABC Dry Chemical Powder, 3 kg : 3 A / 10 B
 4.3. Daya padam ABC Dry Chemical Powder, 5 kg : 4 A / 12 B
 4.4. Daya padam ABC Dry Chemical Powder, 6 kg : 5 A / 15 B
 4.5. Daya padam ABC Dry Chemical Powder, 20 kg : 12 A / 40 B
 4.6. Daya padam CO₂, 3 kg : 1 B
 4.7. Daya padam CO₂, 5 kg : 3 B
 4.8. Daya padam CO₂, 7 kg : 5 B
 4.9. Daya padam CO₂, 25 kg : 12 B
 4.10. Jenis ABC Dry Chemical Powder dapat digunakan untuk kelas C.





TOSHIRO UJI LABOLATORIUM SPRINKLER



PEMERINTAH PROVINSI DKI JAKARTA DINAS PENANGGULANGAN KEBAKARAN DAN PENYELAMATAN **LABORATORIUM KEBAKARAN DAN PENYELAMATAN** JI. Raya Ciracas No. 113 Jakarta Timur Telepon (021) 8721909, 29827617 / Fax (021) 8721909 Website : www.jakartafire.net, E-Mail : labdamkarjakarta@gmail.com, WA : 089517354277

JAKARTA

Kode Pos : 13740

Halaman 1 dari 2

LAPORAN HASIL UJI

Nomor	:	207 / TB.06.01
Contoh Uji	:	Kepala Pemercik (<i>Sprinkler</i>) jenis <i>Pendent, Upright</i> dan <i>Sidewall</i> merek "TOSHIRO"
Tanggal Terima	:	20 Februari 2023
Kode Contoh Uji	:	SPR/01/01-1/II/2023, SPR/02/01-2/II/2023 dan SPR/03/01-3/II/2023
Tanggal Pengujian	:	13 Maret 2023
Nama Pemohon	:	PT Lintas Sahabat Antar Niaga
Direktur	:	Muhidin (NIK 3201132506790007)
Alamat	:	Ruko Cibinong Mansion Jl. Jakarta – Bogor Km 49 No. 9, Nanggewer Mekar - Bogor
		Tlp. (021) 837 29266
		Email : pt.lisan20@gmail.com
Untuk Keperluan	:	Uji Lab <i>Sprinkler</i>
Berlaku sampai dengan	:	14 Maret 2026

1. Spesifikasi Alat (Brosur Perusahaan)

No	Thread Size	Sprinkler Style	Working Pressure (Mpa)	Bursting Pressure (Mpa)	Suhu Kerja / Fusing Point (⁰ C)	Warna Tabung / Bulb Color
1.	1⁄2"	Pendent	1,6	2,4	68	merah
2.	1⁄2"	Upright	1,6	2,4	68	merah
3.	1⁄2"	Sidewall	1,6	2,4	68	merah

2. Hasil Uji Kinerja

No	Jenis/Type	Suhu Pecah (^o C)	Waktu Pecah (detik)	Jarak Pancar (meter)	Daya Tahan (bar)	Metode Uji/Teknik
1	Pendent	78,5	15,56	2,50	12	NFPA 13 : 2010
2	Upright	66,9	10,52	2,80	12	
3	Sidewall	68,5	6,16	2,40	12	

3.Foto Penguijan



TOSHIRO UJI LABOLATORIUM

SPRINKLER



PEMERINTAH PROVINSI DKI JAKARTA DINAS PENANGGULANGAN KEBAKARAN DAN PENYELAMATAN **LABORATORIUM KEBAKARAN DAN PENYELAMATAN** JI. Raya Ciracas No. 113 Jakarta Timur Telepon (021) 8721909, 29627617 / Fax (021) 8721909 Website : www.jakartafire.net, E-Mail : labdamkarjakarta@gmail.com, WA : 089517354277 J A K A R T A

Kode Pos : 13740

Halaman 2 dari 2 Nomor : 207 / TB.06.01

3. Foto Pengujian





Contoh Uji

Saat Pengujian

Kinerja Alat

4. Kesimpulan

- 4.1. Hasil Uji Kinerja Kepala Pemercik (*Sprinkler*) jenis *Pendent* merek "TOSHIRO" Suhu Pecah 78,5°C, Waktu Pecah 15,56 detik, Jarak Pancar 2,50 meter dan Daya Tahan 11 bar;
- 4.2. Hasil Uji Kinerja Kepala Pemercik (*Sprinkler*) jenis *Upright* merek "TOSHIRO" Suhu Pecah 66,9°C, Waktu Pecah 10,52 detik, Jarak Pancar 2,80 meter dan Daya Tahan 11 bar ;
- 4.3. Hasil Uji Kinerja Kepala Pemercik (Sprinkler) jenis Sidewall merek "TOSHIRO" Suhu Pecah 68,5°C, Waktu Pecah 6,16 detik, Jarak Pancar 2,40 meter dan Daya Tahan 11 bar.

PROVINSION Jakarta, 14 Maret 2023 Kepala Laboratorium Kebakaran dan Penyelamatan, Herbert Plider Lumban Gaol, S.Sos, MM NIP 196910211990081001



PEMERINTAH PROVINSI DKI JAKARTA DINAS PENANGGULANGAN KEBAKARAN DAN PENYELAMATAN **LABORATORIUM KEBAKARAN DAN PENYELAMATAN** JI. Raya Ciracas No. 113 Jakarta Timur Telepon (021) 8721909, 29627617 / Fax (021) 8721909 Website : www.jakartafire.net, E-Mail : labdamkarjakarta@gmail.com, WA : 089517354277 J A K A R T A

Kode Pos : 13740

Halaman 2 dari 2 Nomor : 207 / TB.06.01

3. Foto Pengujian





Contoh Uji

Saat Pengujian

Kinerja Alat

4. Kesimpulan

- 4.1. Hasil Uji Kinerja Kepala Pemercik (*Sprinkler*) jenis *Pendent* merek "TOSHIRO" Suhu Pecah 78,5°C, Waktu Pecah 15,56 detik, Jarak Pancar 2,50 meter dan Daya Tahan 11 bar;
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PROVINSION Jakarta, 14 Maret 2023 Kepala Laboratorium Kebakaran dan Penyelamatan, Herbert Plider Lumban Gaol, S.Sos, MM NIP 196910211990081001





PEMERINTAH PROVINSI DKI JAKARTA DINAS PENANGGULANGAN KEBAKARAN DAN PENYELAMATAN LABORATORIUM KEBAKARAN DAN PENYELAMATAN Jl. Raya Ciracas No. 113 Jakarta Timur Telepon (021) 8721909, 29627617 / Fax (021) 8721909 Website : www.jakartafire.net, E-Mail : labdamkarjakarta@gmail.com, WA : 089517354277 J A K A R T A

Kode Pos : 13740

Halaman 1 dari 3

LAPORAN HASIL UJI

Nomor Contoh Uji	: 277 / TB.06.01 : Komponen Hidran berupa <i>Hydrant Valve</i> ukuran 1,5 <i>inch</i> , 2,5 <i>inch</i> , <i>Hydrant Pilar</i> dan <i>Siamese Connection</i> merek "TOSHIRO" tekanan
Tanggal Terima Kode Contoh Uji	kerja 10 bar : 14 Februari 2023 : HDR/05/01-1/II/2023, HDR/06/01-2/II/2023, HDR/07/01-3/II/2023 dan HDR/08/01-4/II/2023
Tanggal Pengujian Nama Pemohon Direktur Alamat	 13 Maret 2023 PT Lintas Sahabat Antar Niaga Muhidin (NIK 3201132506790007) Ruko Cibinong Mansion JI. Jakarta – Bogor Km 49 No. 9, Nanggewer Mekar - Bogor
Untuk Keperluan Berlaku sampai dengan	Tlp. (021) 837 29266 Email : pt.lisan20@gmail.com : Pembuatan Uji Lab Damkar : 29 Maret 2026

1. Kondisi Pengujian

1.1. Suhu Udara : 30,2 °C

2. Hasil Uji

6

2.1. Hydrant Valve 1,5 inch (HDR/05/01-1/II/2023)

No.	Parameter	Satuan (bar)	Hasil	Syarat	Metode Uji/Teknik
1.	Tekanan kerja (Working Pressure)	10	Baik/ tidak ada kebocoran	10 bar selama 1 menit tidak rusak dan tidak bocor	NFPA 14:
2.	Tekanan makaimum untuk susta		Baik/ tidak ada 14 bar selama 2 jam kebocoran rusak dan tidak boco		SOP Teknis Nomor
3.			Baik/ tidak ada kebocoran	24 bar selama 1 menit tidak rusak dan tidak bocor	573/2012

2.2. Hydrant Valve 2,5 inch (HDR/06/01-2/II/2023)

No.	Parameter	Satuan (bar)	Hasil	Syarat	Metode Uji/Teknik	
1.	Tekanan kerja (Working Pressure)	10	10 Baik/ tidak ada 10 bar selama kebocoran rusak dan tidak		and the second	
2.	Tekanan Hidrostatis (Hydrostatic Test)		Baik/ tidak ada kebocoran	14 bar selama 2 jam tidak rusak dan tidak bocor	NFPA 14; SOP Teknis Nomor 573/2012	
3.	3. Tekanan maksimum untuk system (Maks Pressure for System)		Baik/ tidak ada kebocoran	24 bar selama 1 menit tidak rusak dan tidak bocor		

2.3. Hydrant Pilar (HDR/07/01-3/II/2023)

No.	Parameter	Satuan (bar)	Hasil	Syarat	Metode Uji/Teknik
1.	Tekanan kerja (Working Pressure)	kebocoran rusak dan t		10 bar selama 1 menit tidak rusak dan tidak bocor	NEDA 44
2.	Tekanan Hidrostatis (Hydrostatic Test)	14	Baik/ tidak ada kebocoran	14 har selama 2 iam tidak	NFPA 14; SOP Teknis Nomor
3.	Tekanan maksimum untuk system (Maks Pressure for System)	24	Baik/ tidak ada kebocoran	24 bar selama 1 menit tidak	573/2012





PEMERINTAH PROVINSI DKI JAKARTA DINAS PENANGGULANGAN KEBAKARAN DAN PENYELAMATAN LABORATORIUM KEBAKARAN DAN PENYELAMATAN JI. Raya Ciracas No. 113 Jakarta Timur Telenon (021) 8721000, 29627647, E Fay (021) 8721000

JI. Raya Ciracas No. 113 Jakarta Timur Telepon (021) 8721909, 29627617 / Fax (021) 8721909 Website : www.jakartafire.net, E-Mail : labdamkarjakarta@gmail.com, WA : 089517354277 J A K A R T A

Kode Pos : 13740

Halaman 2 dari 3 Nomor : 277 / TB.06.01

2.4. Siamese Connection (HDR/08/01-4/II/2023)

No.	Parameter	Satuan (bar)	Hasil	Syarat	Metode Uji/Teknik	
1.			Baik/ tidak ada kebocoran	10 bar selama 1 menit tidak rusak dan tidak bocor	NFPA 14:	
2.	lest)		Baik/ tidak ada kebocoran	14 bar selama 2 jam tidak rusak dan tidak bocor	SOP Teknis Nomor	
3.	3. Tekanan maksimum untuk system (Maks Pressure for System)		Baik/ tidak ada kebocoran	24 bar selama 1 menit tidak rusak dan tidak bocor	573/2012	

3. Foto Pengujian

3.1. Komponen Hydrant



Contoh Uji



3.2. Pada saat Pengujian Hydrant Valve ukuran 1,5 inch, 2,5 inch, Hydrant Pilar dan Siamese Connection



- 4. Kesimpulan
 - 4.1. Contoh Uji Komponen Hidran berupa Valve 1,5 inch merek "TOSHIRO" :
 - Tekanan kerja (Working Pressure) baik / tidak ada kebocoran dengan syarat 10 bar selama 1 menit tidak rusak dan tidak bocor;
 - b. Tekanan Hidrostatis (Hydrostatic Test) baik / tidak ada kebocoran dengan syarat 14 bar selama 2 jam tidak rusak dan tidak bocor ;
 - c. Tekanan maksimum untuk system (Maks Pressure for System) baik / tidak ada kebocoran dengan syarat 24 bar selama 1 menit tidak rusak dan tidak bocor.





PEMERINTAH PROVINSI DKI JAKARTA DINAS PENANGGULANGAN KEBAKARAN DAN PENYELAMATAN **LABORATORIUM KEBAKARAN DAN PENYELAMATAN** JI. Raya Ciracas No. 113 Jakarta Timur Telepon (021) 8721909, 29627617 / Fax (021) 8721909 Website : www.jakartafire.net, E-Maii : labdamkarjakarta@gmail.com, WA : 089517354277

JAKARTA

Kode Pos : 13740

Halaman 3 dari 3 Nomor : 277 / TB.06.01

- 4.2. Contoh uji Komponen Hidran berupa Valve 2,5 inch merek " TOSHIRO" :
 - Tekanan kerja (Working Pressure) baik / tidak ada kebocoran dengan syarat 10 bar selama 1 menit tidak rusak dan tidak bocor;
 - b. Tekanan Hidrostatis (*Hydrostatic Test*) baik / tidak ada kebocoran dengan syarat 14 bar selama 2 jam tidak rusak dan tidak bocor ;
 - c. Tekanan maksimum untuk system (Maks Pressure for System) baik / tidak ada kebocoran dengan syarat 24 bar selama 1 menit tidak rusak dan tidak bocor.
- 4.3. Contoh uji Komponen Hidran berupa Hydrant Pilar merek "TOSHIRO"
 - Tekanan kerja (Working Pressure) baik / tidak ada kebocoran dengan syarat 10 bar selama 1 menit tidak rusak dan tidak bocor;
 - b. Tekanan Hidrostatis (*Hydrostatic Test*) baik / tidak ada kebocoran dengan syarat 14 bar selama 2 jam tidak rusak dan tidak bocor;
 - c. Tekanan maksimum untuk system (Maks Pressure for System) baik / tidak ada kebocoran dengan syarat 24 bar selama 1 menit tidak rusak dan tidak bocor.
- 4.4. Contoh uji Komponen Hidran berupa Siamese Connection merek "TOSHIRO":
 - Tekanan kerja (Working Pressure) baik / tidak ada kebocoran dengan syarat 10 bar selama 1 menit tidak rusak dan tidak bocor;
 - b. Tekanan Hidrostatis (*Hydrostatic Test*) baik / tidak ada kebocoran dengan syarat 14 bar selama 2 jam tidak rusak dan tidak bocor ;
 - c. Tekanan maksimum untuk system (Maks Pressure for System) baik / tidak ada kebocoran dengan syarat 24 bar selama 1 menit tidak rusak dan tidak bocor.

Jakarta, 29 Maret 2023

Kepala Laboratorium Kebakaran dan Penyelamatan,

Herbert Plider Lumban Gaol, S.Sos, MM NIP 196910211990081001

TOSHIRO PORTABLE ABC MULTIPURPOSE DRY POWDER

TSR - DP10

1 KG ABC POWDER

- ✓ Agent Weight 1 Kg
- ✓ Tube Height 250 mm
- ✓ Total Weight 2 Kg
- ✓ Tube Diameter 90 mm
- ✓ Working Pressure 14 Bar
- ✓ Test Pressure 25 bar
- ✓ Wall Thickness 0.9 mm
- ✓ Finishing Powder Coating UV Resistant
- ✓ Temperature Range 30° sd 60° C

TSR - DP30

3 KG ABC POWDER

- ✓ Agent Weight 3 Kg
- ✓ Tube Height 350mm
- ✓ Total Weight 4.83 Kg
- ✓ Tube Diameter 130 mm
- ✓ Working Pressure 14 Bar
- ✓ Test Pressure 25 Bar
- ✓ Wall Thickness 1.2 mm
- ✓ Finishing Powder Coating UV Resistant
- ✓ Temperature Range 30° sd 60° C

TSR - DP40

4 KG ABC POWDER

- ✓ Agent Weight 4 Kg
- ✓ Tube Height 410mm
- ✓ Total Weight 5.84 Kg
- ✓ Tube Diameter 130 mm
- ✓ Working Pressure 14 Bar
- ✓ Test Pressure 25 Bar
- ✓ Wall Thickness 1.2 mm
- ✓ Finishing Powder Coating UV Resistant
- ✓ Temperature Range 30° sd 60° C







OSHIRO

ABC MULTIPURPOSE DRY POWDER

TSR - DP50 5 KG ABC POWDER

- ✓ Agent Weight 5 Kg
- ✓ Tube Height 420 mm
- ✓ Total Weight 6.9 Kg
- ✓ Tube Diameter 140 mm
- ✓ Working Pressure 14 Bar
- ✓ Test Pressure 25 Bar
- ✓ Wall Thickness 1.2mm
- ✓ Finishing Powder Coating UV Resistant
- ✓ Temperature Range 30° sd 60° C

TSR - DP60 6 KG ABC POWDER

- Agent Weight 6 Kg
- ✓ Tube Height 420 mm
- ✓ Total Weight 8 Kg
- ✓ Tube Diameter 160 mm
- ✓ Working Pressure 14 Bar
- ✓ Test Pressure 25 Bar
- ✓ Wall Thickness 1.2 mm
- ✓ Finishing Powder Coating UV Resistant
- ✓ Temperature Range 30° sd 60° C

TSR - DP90 9 KG ABC POWDER

- ✓ Agent Weight 9 Kg
- ✓ Tube Height 500 mm
- ✓ Total Weight 11 Kg
- ✓ Diameter 182 mm
- ✓ Working Pressure 14 Bar
- ✓ Test Pressure 25 Bar
- ✓ Wall Thickness 1.5 mm
- ✓ Finishing Powder Coating UV Resistant
- ✓ Temperature Range 30° sd 60° C







TOSHIRO PORTABLE

OSHIRO

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ABC MULTIPURPOSE DRY POWDER

TSR - DP100

10 KG ABC POWDER

- ✓ Agent Weight 10 Kg
- ✓ Tube Height 600 mm
- ✓ Total Weight 13.3 Kg
- ✓ Tube Diameter 182mm
- ✓ Working Pressure 14 Bar
- ✓ Test Pressure 25 Bar
- ✓ Wall Thickness 1.5 mm
- ✓ Finishing Powder Coating UV Resistant
- ✓ Temperature Range 30° sd 60° C

TSR - DP120

12 KG ABC POWDER

- ✓ Agent Weight 12 Kg
- ✓ Tube Height 600 mm
- ✓ Total Weight 15.3 Kg
- ✓ Tube Diameter 182mm
- ✓ Working Pressure 14 Bar
- ✓ Test Pressure 25 Bar
- ✓ Wall Thickness 1.5 mm
- ✓ Finishing Powder Coating UV Resistant
- ✓ Temperature Range 30° sd 60° C



TOSHIRO TROLLEY ABC MULTIPURPOSE DRY POWDER

TSR - DP200

20 KG ABC POWDER

- ✓ Agent Weight 20 Kg
- ✓ Tube Height 590 mm
- ✓ Tube Diameter 240 mm
- ✓ Working Pressure 14 Bar
- ✓ Test Pressure 25 Bar
- ✓ Wall Thickness 3 mm
- ✓ Finishing Powder Coating UV Resistant
- ✓ Temperature Range 30° sd 60° C

TSR - DP250

25 KG ABC POWDER

- ✓ Agent Weight 25 Kg
- Tube Height 920 mm
- ✓ Tube Diameter 300 mm
- ✓ Working Pressure 14 Bar
- ✓ Test Pressure 25 Bar
- ✓ Wall Thickness 3 mm
- ✓ Finishing Powder Coating UV Resistant
- ✓ Temperature Range 30° sd 60° C

TSR - DP400

40 KG ABC POWDER

- ✓ Agent Weight 40 Kg
- ✓ Tube Height 990 mm
- Tube Diameter 340 mm
- ✓ Working Pressure 14 Bar
- ✓ Test Pressure 25 Bar
- ✓ Wall Thickness 3,5 mm
- ✓ Finishing Powder Coating UV Resistant
- ✓ Temperature Range 30° sd 60° C





OSHIRO ()

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TOSHIRO TROLLEY ABC MULTIPURPOSE DRY POWDER

TSR – DP500

50 KG ABC POWDER

- ✓ Agent Weight 50 Kg
- ✓ Tube Height 1095mm
- Tube Diameter 320 mm
- ✓ Working Pressure 14 Bar
- ✓ Test Pressure 25 Bar
- ✓ Wall Thickness 3.5 mm
- ✓ Finishing Powder Coating UV Resistant
- ✓ Temperature Range 30° sd 60° C



TSR – DP700

70 KG ABC POWDER

- ✓ Agent Weight 70 Kg
- ✓ Tube Height 1170 mm
- ✓ Tube Diameter 350 mm
- ✓ Working Pressure 14 Bar
- ✓ Test Pressure 25 Bar
- ✓ Wall Thickness 3.5 mm
- ✓ Finishing Powder Coating UV Resistant
- ✓ Temperature Range 30° sd 60° C



TOSHIRO PORTABLE CARBON DIOXIDE (CO2)

TSR - CO20

2 KG CO2

- ✓ Agent Weight 2 Kg
- ✓ Total Weight 7.6 Kg
- ✓ Tube Diameter 114 mm
- ✓ Tube Height 415 mm
- ✓ Volume 3.0L
- ✓ Material CK45
- ✓ Working Pressure 167 Bar
- ✓ Test Pressure 250 Bar
- Wall Thickness 4 mm
- ✓ Temperature Range 30° sd 60° C

TSR - CO30

3 KG CO2

- ✓ Agent Weight 3 Kg
- ✓ Total Weight 10.5 Kg
- Tube Diameter 114 mm
- ✓ Tube Height 585mm
- ✓ Volume 4.5L
- ✓ Material CK45
- ✓ Working Pressure 167 Bar
- Test Pressure 250 Bar
- Wall Thickness 4 mm
- ✓ Temperature Range 30° sd 60° C

TSR - CO50

5 KG CO2

- ✓ Agent Weight 5 Kg
- ✓ Total Weight 17.3 Kg
- ✓ Tube Diameter 152 mm
- ✓ Tube Height 560mm
- ✓ Volume 7.5L
- ✓ Material CK45
- Working Pressure 167 Bar
- ✓ Test Pressure 250 Bar
- Wall Thickness 5 mm
- ✓ Temperature Range 30° sd 60° C





TOSHIRO PORTABLE CARBON DIOXIDE (CO2)

TSR - CO70 7 KG CO2

- ✓ Agent Weight 7 Kg
- ✓ Total Weight 23 Kg
- ✓ Tube Diameter 152 mm
- ✓ Tube Height 750mm
- ✓ Volume 10.5L
- ✓ Material CK45
- ✓ Working Pressure 167 Bar
- ✓ Test Pressure 250 Bar
- ✓ Wall Thickness 5 mm
- ✓ Temperature Range 30° sd 60° C



TOSHIRO THERMATIC AUTOMATIC DRY POWDER

TSR- THCA-40

4 KG AUTOMATIC CLEAN AGEN

- ✓ Agent Weight 4 Kg
- ✓ Clynder Diameter 245 mm
- ✓ Height 180 mm
- ✓ Working Pressure 18 bar
- ✓ Test Pressure 27 bar
- ✓ Wall Thickness 2 mm
- ✓ Finishing Powder Coating UV Resistant
- ✓ Temperature Range 30° sd 60° C

TSR-THCD-60

6 KG AUTOMATIC DRY POWDER

- ✓ Agent Weight 6 Kg
- Clynder Diameter 275 mm
- ✓ Height 205 mm
- ✓ Working Pressure 18 bar
- ✓ Test Pressure 27 bar
- ✓ Wall Thickness 2 mm
- ✓ Finishing Powder Coating UV Resistant
- ✓ Temperature Range 30° sd 60° C





CLEAN AGEN

TOSHIRO HYDRANT BOX

HYDRANT

P

MODEL - A1 KACA

Dimension 66cm (H) x 52cm (W) x 15cm (D) Material Mild Steel Thickness 1.2mm, 1.6mm, 1.8mm, 2mm Finishing Powder Coating

MODEL - A2 KACA

Dimension 100cm (H) x 80cm (W) x 18cm (D) Material Mild Steel Thickness 1.2mm, 1.6mm, 1.8mm, 2mm Finishing Powder Coating



CUSTOM BOX WITH EXTINGUISHER BOX

Dimension 125cm (H) x 110cm (W) x 20cm (D) Material Mild Steel Thickness 1.2mm, 1.6mm, 1.8mm, 2mm Finishing Powder Coating



TOSHIRO HYDRANT BOX

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HYDRANT

HYDRANT

CUSTOM BOX TYPE B

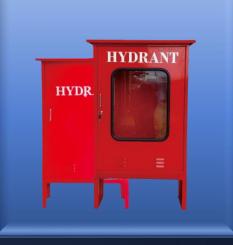
Dimension 180cm (H) x 80cm (W) x 25cm (D) Material Mild Steel Thickness 1.2mm, 1.6mm, 1.8mm, 2mm Finishing Powder Coating

MODEL – B INDOOR KACA

Dimension 125cm (H) x 75cm (W) x 18cm (D) Material Mild Steel Thickness 1.2mm, 1.6mm, 1.8mm, 2mm Finishing Powder Coating

MODEL – C OUTDOOR KACA

Dimension 95cm (H) x 66cm (W) x 20cm (D) Material Mild Steel Thickness 1.2mm, 1.6mm, 1.8mm, 2mm Finishing Powder Coating



TOSHIRO HYDRANT BOX

MODEL – B INDOOR



Dimension 125cm (H) x 75cm (W) x 18cm (D) Material Mild Steel Thickness 1.2mm, 1.6mm, 1.8mm, 2mm Finishing Powder Coating



HYDRANT

MODEL – C OUTDOOR



Dimension 95cm (H) x 66cm (W) x 20cm (D) Material Mild Steel Thickness 1.2mm, 1.6mm, 1.8mm, 2mm Finishing Powder Coating

BOX APAR

Dimension Following Fire Extinguisher Size Material Mild Steel Thickness 1.2mm, 1.6mm, 1.8mm, 2mm Finishing Powder Coating



TOSHIRO HYDRANT EQUIPMENT

HYDRAN VALVE

SIZE 1,5" | 2,5"

Coupling - Machino - Van Der Heyde Pressure 16K Material Brass Finishing Chrome Handwhell Cast Iron



BRANCHPIPE WITH STAIGHT NOZZE SIZE 1,5" | 2,5"

Coupling Machino Material Allumunium/Brass Finishing Chrome



FIRE HOSE Poly Vinyl Chloride (PVC) Inner Lining SIZE 2,5"

Working Pressure 16 Kg/cm² Bursting Pressure 48 Kg/cm² Weight / 30m 7.30 Kg Material Canvas / Polyster



TOSHIRO HYDRANT EQUIPMENT

RUBBER RED

SIZE 2,5"

Working Pressure 16 Kg/cm² Bursting Pressure 48 Kg/cm² Weight / 30m 10 Kg Material Sintetic Rubber



Size 1" x 100 Feet Test Pressure 17.5 Kg/cm² Working Pressure 10 Kg/cm²

Complete with stop valve, Nozzle and clip



Comb 23 Material Allumunium/Brass Finishing Chrome



TOSHIRO HYDRANT EQUIPMENT

SIAMESE CONNECTION TYPE WALL S-7 WALL STANDING S - 11

Size inlet 4" outlet 2 x 2.5" Coupling Machino / VDH Test Pressure 15 Kg / cm² Working Pressure 10 Kg / cm² Material Brass Finishing Chrome



Size inlet 4" outlet 2 x 2.5" Test Pressure 30 Kg/cm² Working Pressure 10 Kg/cm² Finishing Red Painting Weight 34 Kg



TEST DRAIN VALVE

Size 1" Pressure 175 Psi Material Brass



TOSHIRO SPRINKLER

TYPE PENDENT



K Factor K5.6 (80) Thread Dimension ½" NPT Response Standard Finishing Brass / Chrome Temp. Rating 68°C (155°) F



K Factor K5.6 (80) Thread Dimension ½" NPT Response Standard Finishing Brass / Chrome Temp. Rating 68°C (155°) F

TYPE SIDE WALL

K Factor K5.6 (80) Thread Dimension ½" NPT Response Standard Finishing Brass / Chrome Temp. Rating 68°C (155°) F



WATERFLOW SWITCH VSR

Vane-Type Waterflow Switch

UL, CUL Listed / FM, LPCB, VdS Approved and CE Marked vane type waterflow switches shall be furnished and installed at each sprinkler system connection to the wet pipe main where indicated on the drawings and plans and as required by applicable local and national codes and standards.

The device shall be listed for pressures up to 450 psi, maximum water surges of 18 fps and alarm activation by a continuous flow of 10gpm. The device shall be Listed for installation on pipe schedules from 5-40 for $2^{"}$ – $6^{"}$ and schedule 10-40 for 8" through 10" size

The device shall consist of a saddle with factory installed non-corrosive insert, gasket and noncorrosive vane and trip stem assembly as well as a field replaceable adjustable time delay / switch mechanism to prevent false alarms from water surges. All wetted parts of the waterflow switch shall be non-metallic to resist being affected by or contributing to corrosion. The waterflow switch enclosures shall be NEMA 4 rated and the cover shall be held captive by tamper resistant screws. It shall be possible to install an optional cover tamper switch to detect removal of the enclosure.

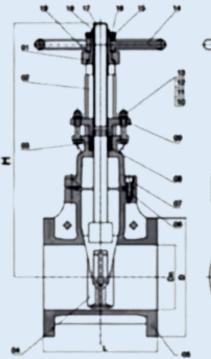
The field replaceable instantly recycling adjustable pneumatic retard shall provide a 0-90 second time delay and visual indication of activation. Expiration of the retard time shall result in the simultaneous operation of two sets of single pole double throw (SPDT) switch contacts rated at 10A, 125VAC and 2A, 30VDC. Each switch contact shall have a separate wiring chamber and separate conduit entrance to comply with the NEC requirements for separation of power limited and non power limited conductors without the need for special wire or wire methods.

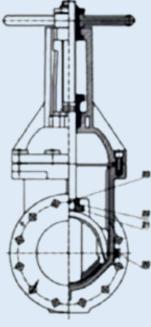
	Compatible Pipe/ Installation Requirements																	
Model]	Pipe Wall T	hickness					Hole Size		U-Bolt Nuts		
		Size	O.D.		Ligh	twall	Schedule	e 10 (UL)	Schedule	40 (UL)	BS-138	7 (LPC)	DN (V	/DS)			Tor	que
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	ft-lb	n-m
VSR-2	2	DN50	2.375	60.3	.065	1.651	0.109	2.77	0.154	3.91	0.142	3.6	0.091	2.3				
VSR-2 1/2	2.5	-	2.875	73.0	.084	2.134	0.120	3.05	0.203	5.16	-	-	-	-	1.25 + .125/062	33.0±2.0		
VSR-2 1/2	-	DN65	3.000	76.1	-	-	-	-	-	-	0.142	3.6	0.102	2.6				
VSR-3	3	DN80	3.500	88.9	.083	2.108	0.120	3.05	0.216	5.49	0.157	4.0	0.114	2.9				
VSR-3 1/2	3.5	-	4.000	101.6	-	-	0.120	3.05	0.226	5.74	-	-	-	-			20	27
VSR-4	4	DN100	4.500	114.3	.084	2.134	0.120	3.05	0.237	6.02	0.177	4.5	0.126	3.2	$2.00 \pm .125$	50.8 ± 2.0		
VSR-5	5	-	5.563	141.3	-	-	0.134	3.40	0.258	6.55	-	-	-	-	$2.00 \pm .125$	50.8 ± 2.0		
VSR-6	6	DN150	6.625	168.3	.115	2.921	0.134	3.40	0.280	7.11	0.197	5.0	0.157	4.0				
VSR-8	8	DN200	8.625	219.1	-	-	0.148	3.76	0.322	8.18	0.248	6.3	0.177	4.5				



TOSHIRO GATE VALVE OS & Y







TECHNICAL SPECIFICATION

- 1. Design Standard AWWA C515
- 2. Nominal Pressure 300 PSI
- Flange standard ASME/ANSI B16 1 Class or ASME / ANSI B16. 42 Class 150 or BS EN1092-2 PN16 or GB/T9113.1
- 4. Epoxy raisin Coating both inside, outside

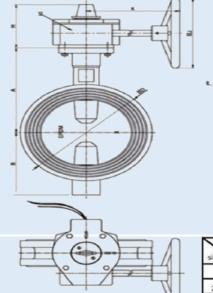
size	2-1/2*	3"	4*	5*	6*	8*	10*	12"
Dn	65	80	103	128.5	155	204	225	304
L	190	203	229	254	267	292	330	356
D	178	191	229	254	279	343	406	483
N	370	420	447	547	507	754	890	1031

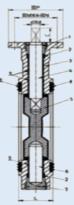
23	Sealing Ring	1	EPDM
22	Pin	1	5.5.304
21	Lifting Nut	1	CF8M
20	Plug	2	C95400
19	Gasket	1	C95400
18	Stem Nut	1	5.5.304
17	Stem	1	S.S.304
16	Locating Screw	1	5.5.304
15	Lock Nut	1	C95400
14	Handwheel	1	DI
13	Spring Washer	2	Steel
12	Bolt	2	Steel
11	Flat Washer	2	Steel
10	Nut	2	Steel
09	Gland	1	DI
08			
07	Bolt	m	Steel
06	Sealing Ring	1	EPDM
05	Body	1	DI
04	Disc	1	DI+EPDM
03	Packing	3	GRAPHITE
02	Bonnct	1	DI
01	Gasket	1	C95400
NO.	Name	Qty	Material

WATER VALVE TYPE BUTTERFLY

TECHNICAL SPECIFICATION

- 1. Maximum Working Pressure 300psi
- 2. Max. Test Pressure 600 psi
- 3. Maximum Working Temperature 250F / 120oC
- 4. Double Seal Disc Resilient EPDM Coated
- 5. Factory installed Supervisory
- 6. Tamper switch Assembly
- 7. Outdoor / indoor





item	A	8	c	D	н		ĸ	L	Р	м	N	d	L
2"	110	85	32	100	111	153	218	152	90	70	9	10	42
2-1/2*	125	95	32	112	111	153	218	152	90	70	9	10	44.2
3*	140	100	32	120	111	153	218	152	90	70	9	11	45.3
4"	160	100	32	161	111	153	218	152	90	70	9	14	52
5"	170	125	32	182	111	153	218	152	90	70	9	14	54,4
6"	190	140	32	216	111	153	218	200	90	70	9	16	55.8
8"	230	175	32	260	126	210	232	300	125	102	12	19	60.5
10"	260	200	45	320	126	210	232	300	125	102	12	24	66.5
12"	300	240	45	375	161	2	49	350	125	102	14	26	76.9

Carried Standard						
Design Standard	AP1609					
Face to Face Standard	ASME B-16. 10					
To Flange Standard	ISO 5211					
Test Standard	FM112/UL 1091					

10	Signal Gearbox	DI
09	Stem Bushing	PTFE
08	End Face Seal	EPDM
07	Lower Shaft Sealing Nut	WCB
06	Lower Shaft	\$\$416
05	Disc	DI + EPDM
04	Upper Shaft	55416
03	Body	DI
02	Shaft Seal	EPDM
01	Upper Shaft Sealing Nut	WCB
NO.	Name	Material

WET ALARM CHECK VALVE

Flange/Groove/Flange*Groove/Groove*Flane

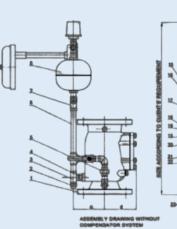
TECHNICAL FEATURES

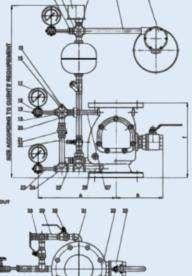
- Maximun Adjust Pressure: 200PSI-300PSI/PN10/PN16
- Flange Standart: AS,E/ANSI B16.1 Class 125 or ASME/ANSI B16.42 CLASS 150 or BS EN1092-2 Pn16 or GB/T9113.1
- Groove Standard : AWWA C606/ISO 6182-12
- Working Temperature 4 C 70 C\
- Instalation Height of the Gong According to Clients' requirements
- External Dimension for reference only
- Coating details : Epoxy coated interior and exterior by Electrostatic Spray or Coatingupon request
- Alarm check valves use in wet pipe or sprinkler system,

Fire Protecting SysteM

VALVE MATERIAL LIST

Size	Name	Material	QTY.
1	Alarm Valve		1
2	Orifice, retard	C954/SS304	1
3	Tee	Steel/SS304	2
4	Nipple	Steel/SS304	6
5	Union	Steel/SS304	1
6	Nipple	Steel/SS304	1
7	Y Strainer	C954/SS304	1
8	Retard Chamber	Steel	1
9	Gong Assembly	Component	1
10	Nipple	Steel/SS304	1
11	Reducer Bushing	Steel/SS304	1
12	Pressure Switch	Component	1
13	Cross	Steel/SS304	1
14	Reducer Bushing	Steel/SS304	1
15	Plug	Steel/C954/SS304	1
16	Cross	Steel/SS304	2
17	Pressure Gauge	Component	3
18	3-way Valve Gauge	C954/SS304	3
19	Plug	Steel/C954/SS304	3
20	Orifice, retard	C954/SS304	1
21	Check Valve	C954/SS304	1
22	Nipple	Steel/SS304	1
23	Nipple	Steel/SS304	3
24	Tee	Steel/SS304	2
25	Nipple	Steel/SS304	4
26	Nipple	Steel/SS304	1
27	Nipple	Steel/SS304	1
28	Ball Valve	C954/SS304	1
29	Nipple	Steel/SS304	1
30	Ball Valve	C954/SS304	1
31	Elbow	Steel/SS304	2
32	Nipple	Steel/SS304	1
33	Ball Valve	C954/SS304	1





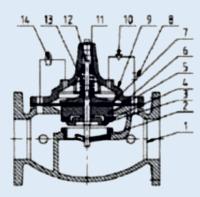
DIMENSIONS

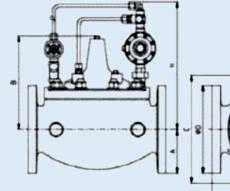
Size	а	b	С	d
2"	340	205	145	110
2.5"	340	205	145	110
3"	340	205	145	110
4"	342	250	160	136
5"	349	274	180	162
6"	349	274	180	162
8"	415	290	205	195
10"	475	340	240	235
12"	495	368	270	270

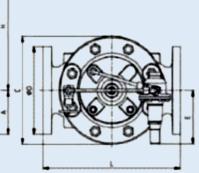
TOSHIRO PRESSURE REDUCING VALVE

No.	Name of parts	Material
1	Body	Ductile Iron AS1831 500-7
2	valve seat	Stainless Steel 304
3	Valve plate	Stainless Steel 304
4	seal gasket	EPDM AS1646
5	valve disk	Ductile Iron AS1831 500-7
6	diaphragm	EPDM+Nylon
7	Diaphragm plate	Ductile Iron AS1831 500-7
8	Filter	Stainless Steel 304
9	Valve cover	Ductile Iron AS1831 500-7
10	Needle	Stainless Steel 304
11	Guiding plug	Stainless Steel 304
12	Valve shaft	Stainless Steel 304
13	Spring	Stainless Steel 304
14	Pilot-Relief valve	Stainless Steel 304









Dimensions		Pressure rating	Size (mm)						
DN	inch	psi	ΦD	L	н	A	В	С	E
50	2	300	150	230	294	82.5	152	155	134
65	2-1/2	300	180	290	298	92.5	170	190	134
80	3	300	190	310	310	100	197	233	134
100	4	300	230	350	320	110	234	270	134
150	6	300	280	480	352	158	311	378	134
200	8	300	345	600	382	190	377	496	134

ISO9001 Approvals : € €

TSR - 03S & TSR - 03E

Addressable Fire Alarm Control Panel

ADVANTAGES

✓ Two-wire communication :

- 1. Saving cabling costs, time and labor efforts
- 2. Easy maintenance
- 3. Combining signal and power loop-do not need voltage for connecting with conventional detectors
- ✓ 7' color LCD display with eady operation interface
- ✓ Equipped with self-simulation testing and warning functions
- \checkmark 256 points per loop : mix addressable points of module and addressable detector
- ✓ USB port : easily upload / download program
- ✓ Multi-function : Networking, Linkage, Graphic system, Central monitoring and controlling system

MODEL NO.	TSR - 03S	TSR - 03S			
LOOP CAPABLE	256 ADD / LOOP (max. 8 LOOPS)	256ADD / LOOP			
POWER INPUT	AC220V 50 60Hz				
POWER CONSUMPTION	100VA / loop, approx, 50VA / extra loop				
COMMUNICATION CABLE	Internal resistance of communication cable < 12 $$, PE insulation wrapping of 500V communication cable > 2M				
COMMUNICATION LOOP	Communication Loop 256 Points / loop , DC24V 25mA/loop provided for conventional detectors				
DISPLAY	7' color LCD display with easy operation interface				
EVENT LOG	History message (max.9999). instant message (max.1000)				
AUDIO HOM	Built-in electronic buzzer/90dB DC24V 50mA				
NET EXPANSION	 Networking: FACP (max.99). Repeater/Annunciator (max.64) Intelligent graphics system Broadcasting system 				
BATTERY BACKUP	Built-in lead acid battery and charger DC24	/ 4. 5AH			
POWER OUTPUT	Alarm bells, indicators lamps, horns, gates, D	C24V 10A MAX			
PRINTING	Built in thermal printer in English(optional)	None			
RELAY OUTPUT	Alarm, trouble, reset Both NO, NC	Alarm, trouble Both NO, NC			
TEMPERATURE / RH	0 C 50 C, less 95% RH, non-condensing				
DIMENSIONS	450x660mm (WxHxD)/4 LOOP 450x860mm (WxHxD)/8 LOOP 450x450x170mm (WxHxD)				
THICKNESS / PAINTING	1.2mm powder coated				



ISO9001 Approvals : € €

Addressable Fire Alarm Annunciator

ADVANTAGES

- ✓ 7 inch color LCD display with Chinese/ English, easy operating, increasing effecienty to deal with the fire alarm.
- \checkmark Simultaneously display the message of alarm and error as the host FACP
- ✓ Equipped indicating light: FIRE `POWER `TROUBLE
- ✓ FR-485 communication, effective distance > 1000m
- ✓ Able to operate the function of "RESET", "BUSSER OFF", "BELL/ HORN OFF" to the host FACP directly
- ✓ Built-in communication device with host FACP

MODEL NO.	TSR - 07
POWER SUPPLY	DC24V
POWER CONSUMPTION	Max: 500 mA/ DC24V
COMMUNICATION	RS-485 provides communication to the panel network
COMMUNICATION CABLE	Internal resistance of communication cable < 12 $$, PE insulation wrapping of 500V communication cable > 2M
FUNCTION	Simultaneously display message and operation as the host FACP
AUDIO HORN	Built-in electronic buzzer/90dB DC24V 50mA
DISPLAY	7 inch color LCD display with Chinese/English
TEMPERATURE / RH	0 C~50 C `less 95% RH/ non-condensing
DIMENSION	360x300x120mm (WxHxD)
MATERIAL o	1o2mm polished plate



ISO9001 Approvals : **C E**

TSR-P1

Fire Alarm Control Panel

ADVANTAGES

- ✓ Zone range is from 5 to 100 zones
- ✓ 2 stages accumulation function to prevent from false alarms
- ✓ With no voltage output contacts and voltage contacts
- ✓ The unit also can combine with our broadcast host and emergency telephone into 3-in-1 system for multipurpose

SPECIFICATION

Fire Alarm Control Panel	Fire Alarm Control Panel	
	2011 0 2011 0 2014 0 2014 0 2014	
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-
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ADVANTAGES

MODEL NO.	Wall Mounting Type						
CIRCUIT NO.	5L - 10L	15L	20L	25L-30L	35L - 40L	45L - 50L	
H (mm)	400	495	580	520	580	700	
W (mm)	300	300	300	480	480	480	
D (mm)	120	120	120	180	180	180	

MODEL NO.	TSR - P1	CURRENT VOLTAGE	24V DC operation voltage, below 5V 32m A	
POWER SUPPLY	220V AC 50/60 Hz	CHARGING CURRENT	26V DC, under 450m A, Trickle Charge	
STAND-BY BATTERY	24V DC		No limit of R.Ö.R. Heat or Fixed Temp. Heat Detector can be installed: Each circuit can connect to a maximum of 20 smoke detectors (standby current for detectors: 24V DC 25µA below)	
EOL RESISTOR	$10k^{\Omega}$	DETECTORS		
EXTERNAL CIRCUIT RESISTANCE	To-and-fro below 50 $^{\Omega}$			
		NO. OF INDICATORS	1.2 times of panel circuits (LED indicator)	
NO. OF BELLS	1.2 times of panel circuits	CASE MATERIAL	1.2 mm - 2.0mm Steel plate with powder coating	
MAIN AUDIO	Single-tone buzzer, above 85dB	REPORT CONTACT	No voltage N.O. contact Capacity 250V AC 7A x 2 sets	

CM-P1	FACP with battery	
OPTIONAL MODEL NO).	SPARE MODEL NO.
-T	Optional Telephone 1 set	YFP-T4 (5 ZONES as 1 unit)
-A	Optional no voltage contacts (5 ZONES as 1 unit)	YFP-T3 (5 ZONES as 1 unit)
-B	Optional voltage contacts (5 ZONES as 1 unit)	YFP T8 (A): (5 ZONES as 1 unit)
-C	Optional annunciator output (It need to be ordered when it's connected to Annunciator Panel : 5 ZONES	YFP T8 (B): (10 ZONES as 1 unit)
· ·	as 1 unit	YFP T3 (5 ZONES as 1 unit)
-D	Optimal ZONE BELL (5 ZONES as 1 unit)	YFP D1 (5 ZONES as 1 unit)

TOSHIRO SMOKE DETECTOR

TSR-SD-04

TOSHIRO

TSR-SD-01/02

TOSHIRO

TSR-SD-03

TOSHIRO

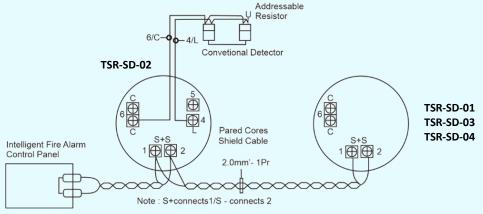
ISO9001 Approvals : **C E**

Addressable Detector

ADVANTAGES

- ✓ Two-wire communications
- ✓ Stable communications, noise/ interference resistant
- ✓ Self-test function
- ✓ Three-color LED indicator : monitoring, alarm, broken circuit
- ✓ FR-RD-02 is able to connect with conventional detectors

□ STRUCTURE



MODEL NO.	TSR-SD-01	TSR-SD-02	TSR-SD-03	TSR-SD-04		
DESCRIPTION	Addressable photoelectric smoke detector	Addressable photoelectric smoke detector	Addressable rate-of-rise heat detectors	Addressable fixed-temperature heat detector		
ALARMNING TEMP.		70°C				
POWER INPUT	DC16V~30V					
POWER CONSUMPTION	Static 480µA/DC24V Alarm 7. 6mA/DC24V					
STATUS INDICATION	Monitoring: Green LE Alarm: Red LED blink Broken circuit: Orang	king				
CONNECTION APABILITY						
TEMPERATURE	0 °C ~ 50 °C	-10 C ~50 C				
DIMENSION	W:150xW:55mm W:150xW:55mm		W:150xW:50mm	W:150xW:50mm		
MATERIAL	Fire-proof plastics					

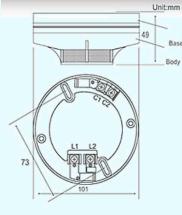
ISO9001 Approvals : **C E**

TSR - WT32L

Photoelectric Type Smoke Detector with Duo - LEDs

ADVANTAGES

- ✓ With the photoelectric sensing principle, this kind of detector is activated more quickly, accurately and reliaby, and there are no false alarm due to chemicals, exhaust gas, wind and exterior light.
- ✓ Detector has passed EMC test, which greatly eliminates false alarms caused by interference from nearby sources
- ✓ Duo-LEDs display separately; Stand-by status: Green, Alarm Status : RED



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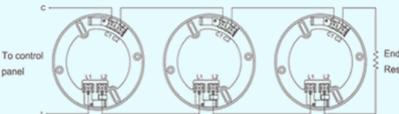
□ SPECIFICATION

MODEL NO.	TSR-WT32L	SENSITIVITY SETTING	Comply to EN54, CNS		
ТҮРЕ	2-wire	AMBIENT TEMP.	-10 C +55 C		
VOLTAGE RANGE	12V~30V DC	AMBIENT HUMIDITY	0~95%		
	24V DC 30mA	MATERIAL	Fire-Proof plastics		
ALARM CURRENT	24V DC 30MA	DIMENSIONS	101 (Dia.) x 49 (H)mm		
STANDBY CURRENT	24V DC/25 µA Below	WEIGHT	138g		
POLARIZATION	Non-polarized	COLOR	White		
ADVANTAGE	Applies to model nos FR - WS32L FR - WK200L and FR - WT32L				

□ EFFECTIVE ALERT AREA

HEIGHT/ CONSTRUCTION	UNDER 4 M	4 M~8M
AREA COVER	150 M	75 M

2-WIRE TYPE



End of Line Resister

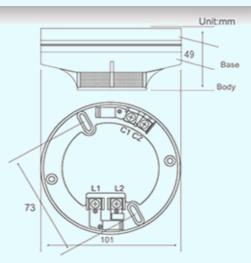
ISO9001 Approvals : **C E**

TSR - WT33LR

Photoelectric Type Smoke

ADVANTAGES

- ✓ Dual LEDs for 360-degree visibility. Bi-color LEDs stand-by status: Green; Alarm status: Red
- ✓ With the photoelectric sensing principle, this kind of detector is activated more quickly, accurately and reliaby, and there are no false alarm due to chemicals, exhaust gas, wind and exterior light
- ✓ Detector has passed EMC test, which greatly eliminates false alarms caused by interference from nearby sources
- ✓ Pretty and jointless outward



OSHIR

SPECIFICATION

MODEL NO.	TRS-WT33LR	TRS-WT33LR	SENSITIVITY SETTING	Comply to EN54, CNS
ТҮРЕ	3-wire	4-wire	AMBIENT TEMP.	-10 C~+55 C
VOLTAGE RANGE	12V~30V DC	12V	AMBIENT HUMIDITY	0~95%
	Fire Alarm System	Security	MATERIAL	Fire-Proof plastics
CONTACT RATING	N/A	1 A @30V DC	DIMENSIONS	101 (Dia.) x 49 (H)mm
ALARM CURRENT	24 V DC 30 m A		WEIGHT	138g
STANDBY CURRENT	24V DC / 25 µA Below		REMARK	Apply to base model no.
POLARIZATION	Non-polarized Polarized	Non-polarized		CM-BSN3 & BSN3T
WEIGHT	131g	137g		

□ EFFECTIVE ALERT AREA

HEIGHT/ CONSTRUCTION	UNDER 4 M	4 M~8M
AREA COVER	150 M ^r	75 M ^r

ISO9001 Approvals : $\boldsymbol{\epsilon} \in \boldsymbol{\epsilon}$

TSR - WK200L

Fixed Temperature Heat Detector

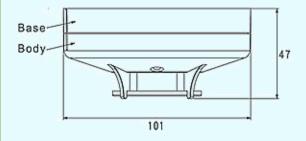
ADVANTAGES

TSR - WK200L

✓ Stabilized performance, long-term durability and least-malfunction are ensured by employing a UL approved sensor

TOSHIRO

- ✓ The sensitive part is enclosed to prevent from being moistened and contaminated
- ✓ Self-restoring function ensures the elements repeat-edly use.



SPECIFICATION

MODEL NO.	TSR - WK200L	AMBIENT TEMP.	-10 Cິ +55 C °
ТҮРЕ	2-wire	AMBIENT HUMIDITY	0~95%
VOLTAGE RANGE	12V~30V DC	VOLTAGE RANGE	Fire-Proof plastics
ALARM CURRENT	24V DC 30m A	ALARM CURRENT	101 (Dia.) x 47(H)mm
POLARIZATION	Non-polarized	POLARIZATION	100g
ALARM TEMP.	Comply to EN54, CNS	ALARM TEMP.	White

EFFECTIVE ALERT AREA

HEIGHT/CONSTRUCTION	Under4M	4M~8M	HEIGHT/CONSTRUCTION	Under 4M	4M 8M
Fire-Proof Building	90 M.	45 M'	Fire-Proof Building	70 M'	35 M'
Ordinary Building	50 M'	30 M.	Ordinary Building	40 M'	25 M'

TSR - WS25L Rate of Rise Heat Detector

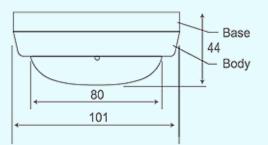
ADVANTAGES

TSR - WS25L

✓ Mechanical operating principles ensure the long-term durability and the least

TOSHIRO

- ✓ 924 ft+895tipping function ensures the elements repeatedly use
- ✓ The exhaust valve of R. O. R. Heat Detector part uses optical fiber glass capillary tube that's heat-resistant and moisture-proof to avoid false alarms



AMBIENT TEMP.	-10 C +55 C °
AMBIENT HUMIDITY	0~95%
VOLTAGE RANGE	Fire-Proof plastics
ALARM CURRENT	101 (Dia.) x 47(H)mm

EFFECTIVE ALERT AREA

ISO9001 Approvals : **C €**

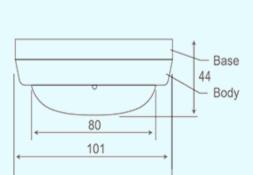
TSR – WS14LR

Rate of Rise Heat Detector

ADVANTAGES

- ✓ Dual LEDs for 360-degree visibility
- Mechanical operating principles ensure the longterm durability and the least malfunction
- ✓ Self-restoring function ensures the elements
- / repeatedly use
- Electrical contacts with Silver-palladium alloy to conduct electricity excellently

✓ The exhaust valve of R.O.R Heat Detector part uses optical fiber glass capillary tube that's heatresistant and moisture-proof to avoid false alarms



□ SPECIFICATION

MODEL NO.	TSR – WS14LR		SENSITIVITY SETTING	Comply to EN54, CNS
ТҮРЕ	2-wire	3-wire	AMBIENT TEMP.	-10 C~+55 C
VOLTAGE RANGE	12V~30V DC		AMBIENT HUMIDITY	₀ 0 95%
ALARM CURRENT	24V DC 30mA		MATERIAL	Fire-Proof plastics
POLARIZATION	Non-polarized	Polarized	DIMENSIONS	101 (Dia.) x 49 (H)mm
WEIGHT	131g		COLOR	White
REMARK	131g			

EFFECTIVE ALERT AREA

HEIGHT/ CONSTRUCTION	UNDER 4 M	4 M~8M
Fire-Proof Building	70 M	35 M
Ordinary Building	40 M	25 M

TOSHIRO

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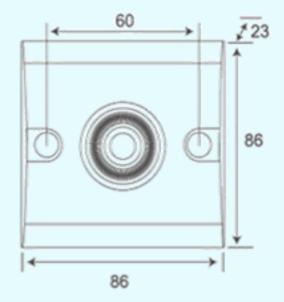
ISO9001 Approvals CE

TSR – RL1

Remote Indicating Lamp

□ ADVANTAGES TSR-RL1

- ✓ This unit is designed to ensure the alarm signal can be actually transmitted to all locations
- ✓ To prevent any missing signal specially for the close room



TOSHIRO

MODEL NO.	TSR-RL1 FR-RL1
VOLTAGE RANGE	Power Source from Detector Base
ALARM CURRENT	60 m A
AMBIENT TEMP.	12 mA
MATERIAL	-10 C~+55 C
WEIGHT	28g
DIMENSIONS	86(W)x86(D)x60(H)mm
COLOR	White

ISO9001 Approvals :

Fire Alarm Bell 6 Inch

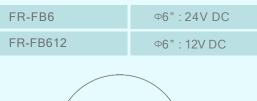
ADVANTAGES FR-FB6 & FR-FB612

- The way of motor-driven is taken at the low consumption of current to reduce the load for power output from receiver terminal
- This design of exceptional structure is sturdy and durable. The bell oven can ring to last 40 hours without decline of the performance and structure

□ SPECIFICATION

MODEL NO.	TSR-FB6 TSR-FB6 12	
VOLTAGE RANGE	24 V DC 12 V D C	
ALARM CURRENT	13 mA 60 mA	
MOVEMENT	Motor	
MATERIAL	3.0 Alloy Alu	
DIMENSIONS	6" (150mm)	
WEIGHT	418g	
SOUND OUTOUT	90 dB / M and Above	
COLOR $_{\oplus}$	Red	

ORDER INFORMATION





Fire Indicating Lamp

ADVANTAGES FR-FL1

- \checkmark Plug-in type of termination for ease
- of Installation
- ✓ Highly visible
- ✓ SMD LED give high brightness while it has lower power consumption

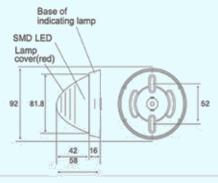
□ SPECIFICATION

MODEL NO.	TSR-FL1
POWER SOURCE	24V DC
ALARM CURRENT	12 mA
AMBIENT TEMP.	∘ -10 c~+55 C
MATERIAL	Fire-Proof plastics
WEIGHT	52 kg
DIMENSIONS ϕ	92 x 58(H)mm
COLOR	Red

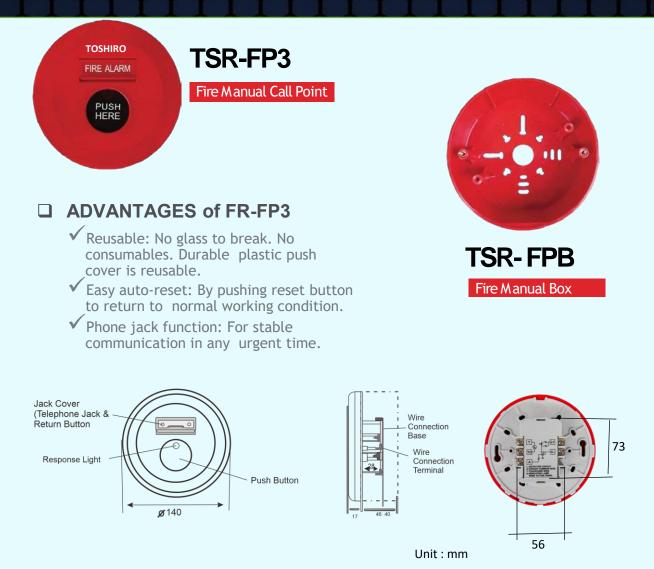
LAMP ACCESSORIES



FL10: Only for FR-FL1 Use



ISO9001 Approvals :



MODEL NO.	<u>CM-FP3</u>
VOLTAGE RANGE	24V DC
ALARM CURRENT	30 mA
OPERATING CONTACT	24V DC 100mA
SUB-FUNCTION	Phone jack; Confirmation LED; Reset button

TSR - FAS1

Fire Alarm Strobe

□ SPECIFICATION:

MODEL NO.	TSR – TAS1
OPERATION VOLLEGE	DC 24V
COLOR	RED
FLASH RATE	65 Flashes/min
SOUND OUTPUT	≥ 100 dB
WORKING CURRENT	80 ~ 180 mA
FLASH INTENSIT Y	≥ 1,2 ws
LIFE OF FLASH LIGHT	\geq 40000
TEMP RANGE	- 10 ~ +50C
DIMENSIONS	。 123 x 75 x 35 mm
HUMIDITY RANGE	<u>≤</u> 95% RH

FIRE

TOSHIRO

□ INSTALLATION:

- At first, get into hole well in the install place(wall), the hole distance is (10)65MM/(11)85MM, installs the plastics and swell Stopper, (if thw wall is the wooden material, can be by attacking the screw and fastening by oneself directly)
- 2. Connect DC12/24V power and network link, and set up a kind of alarm sound well according to the need.
- 3. Specialize in screw by oneself with two, fix the alarm to install in the place, tighten the screw alarm

TSR - 220A TSR - 12D

Household Gas Leak Detector

□ ADVANTAGES

- ✓ Excellent Stability
- ✓ Super High Sensitivity
- ✓ Detector With Base Installation Easily
- ✓ Detecting Various Gases: Flamable Gases (LPG, LNG)

MODEL NO.	TSR-220A / TSR-12D
POWER ON (Warm Up)	Alarm LED is GREEN
STANDBY	Alarm LED is OFF
SENSING INDICATION	Alarm LED in ON
SENSING ALARM SOUND	Bi-Sound without intermittence
SIGNAL OUTPUT	Rellay signal output optional
INSTALL LOCATION	 Neat the ceilingwithin 1 feet for LNG (methane) city gas Near the floor within 1 feet for LPG (propane, butane)

0)

Remark : For avoid broking the sensor, if necessary testing, should be used by low concentration gas. Please do not test within warm-up time.

OPERATION

SENSOR	New Nano Tech	ALARMING RANGE	± 6% LEL
INITIAL	Within 3 minutes	HUMIDITY RANGE	< 95% RH
STABILIZATION	Within 5 minutes	HUMIDHT KANGE	< 95% KH
RESPONSE TIME	Within 20 Seconds	OPERATING	220VAC / 12VDC
ALARM	Safe Home	VOLTAGE	220VAC / 12VDC
POWER	Standby Max. 2W Standby Max. 120mA		-10 °c ~ +50°c
CONSUMPTION	Alarming Max. 3W Alarming Max. 150mA	OPERATING TEMP.	-10 C* +50 C
			Self Extinguishing ABS 768, UL
DIMENSION	115MMx72mmx43mm (HxWxD)	POLARIZATION	84v0

ALARMING TREATMENT

- 1.Don't touch any electrical switch
- 2. Open windows and doors carefully, should be taken to ventilation
- 3. Check the cause of leaks (gas appliances, gas hoses or outlets and what other suspicious)
- 4. Unless Buzzer stops, call Gas Company

TSR-9105R



Reflective Beam SMOKE Detector

ADVANTAGE

- Relective Beam Detector is a relecrive infrared beam smoke detector, which must be used together with reflectors. The number of reflectors(s) to be used (1 of 4) depends on the distance of coverage from the detector
- ✓ With built-in microprocessor, the detector has capabilities of analysis and judgment. The detector can automatically carry out system adjustment & compensation due to variations in ambience data, through fixed algorithm with indications by LED and signal through the output terminals.
- ✓ The detector sensitivity can be field adjustable, to increase the range of application.
- ✓ The detectors can be used with both Conventional Fire Alarm Panels, and our GST range of Addressable Fire Alarm Panels

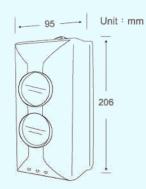
STANDARD ACCESSORIES



4 pcs. Reflector



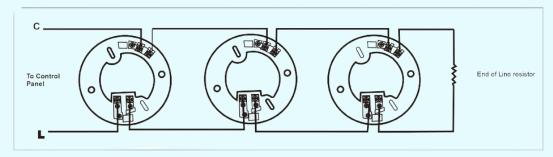
1 pc. IR Light Filter (for simulation testing at site)



TSR - 9105R		Non Polarized Two-Core 24VDC
24VDC (Range 15VDC to 28VDC)	WIRING	Non Polirized Two Core Detection Loop
	OPERATING	Temperature Range : -10 °c ~ +50°c
	ENVIRONMENT	Relative Humidity ≤ 95%
Standby Current : < 8ma		
Alarm Current : ≤ 12ma	DIMENSIONS	206mm (Ht) x 95mm (W) x 95mm (D)
	WEIGHT	450 g
Distance from 8m 10 100m	MATERIAL	ABS Plastic
Maximum Area : 14 x 100 = 1400m	COLOR	GREEY & BLACK
Maximum Whidt : 14m ²	COLON	Sheer & DEACK
	24VDC (Range 15VDC to 28VDC) Standby Current : < 8ma Alarm Current : ≤ 12ma Distance from 8m 10 100m Maximum Area : 14 x 100 = 1400m	Maximum Area : 14 x 100 = 1400m WIRING WIRING WIRING OPERATING ENVIRONMENT OPERATING NOPERATING

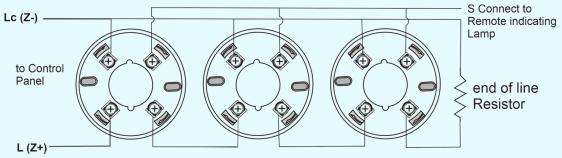
4 Inch Mounting Base WIRING & CONNECTION

TSR-BSN2 2 WIRE TYPE (FORNG SIMPLE ANGEL SERIES



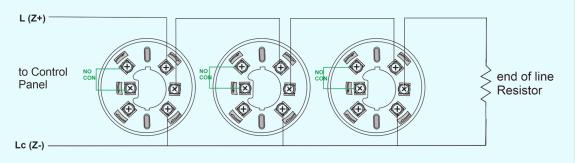
TSR-BSN2





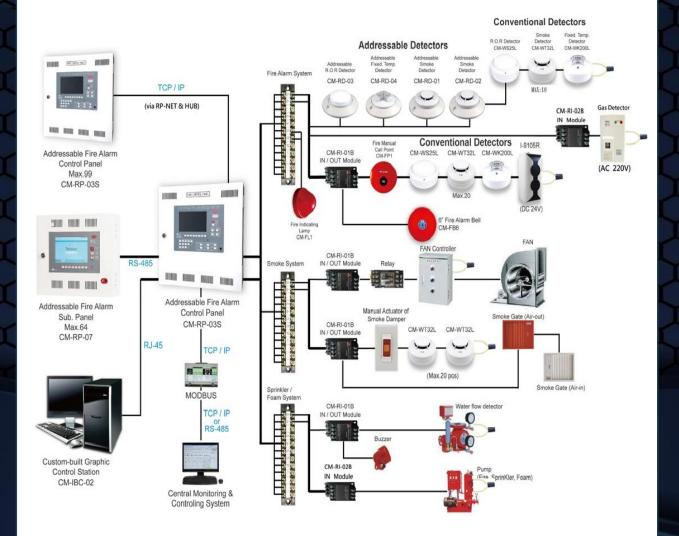
TSR-BSN3T 4-WIRE TYPE (ONLY FOR TSR-WT33LT)

4 WIRE TYPE Relay Output (see GREEN Line) Contact Rating 1A@30V DC





ADDRESSABLE FIRE ALARM SYSTEM STRUCTURE





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