

TROLEXX



TX6373

**TOXIC GAS
DETECTOR**

DATA SHEET

Toxic Gas Detector

Fixed gas concentration monitoring of toxic gas in heavy duty point-source hazards and area protection.

Environments: Mining • Tunnelling • Process Plants • Machine Monitoring
Storage Areas • Confined Spaces

Features

- High-accuracy electrochemical gas sensing elements for a wide range of toxic gases.
- Plug-in precalibrated gas sensing module for ease of maintenance
- Convenient push button calibration
- 4 to 20 mA or 0.4 to 2 V output signal
- Graphic LCD readout of gas concentration and setup display
- SIL1 and SIL2 accreditations
- ATEX, ANZEx, EAC & MASC certification for use in Group I and Group II hazardous areas.
- Optional heavy duty remote mounted sensor for machine monitoring applications



TX6373.84

With Remote Gas Sensor

- Fitted with flexible cable in flexible armoured conduit
- Up to 10 m cable length in 0.5 m increments
- Machined brass for use on machinery and in heavy duty working environments



Technical Details - TX6373

Operating temperature:	-10 °C to +50 °C
Storage temperature:	-20 °C to +60°C
Ambient pressure:	1013 mbar ± 100 mbar absolute
Humidity:	90 % RH non-condensing
Protection classification:	IP65 (Gas inlet port: IP54)
Housing Material:	Electrically dissipative polymer
Nett Weight:	450 g
Cable entries:	3 X M20
Electrical connections:	4mm barrier terminals
Information display:	Graphic LCD display with backlight
Housing Impact limit:	20 Joules
Signal fix:	Output signal is fixed during calibration
Over range:	Auto signal clamping and sensor protection above 5 % v/v CH4

Certification (refer to User Manual for full details): ATEX/ANZEx/EAC/MASC Group I and Group II

Technical Details - Gas Sensor



Electrochemical Sensor	Sensing Range	Linearity	Drift	Repeatability	Response Time T63 %	Operating Life (Clean Air)
Carbon Monoxide	0 to 50 ppm	± 2 % FS	2 % / month	± 2 %	9 seconds	> 2 years
	0 to 250 ppm	± 2 % FS	2 % / month	± 2 %		
	0 to 500 ppm	± 2 % FS	2 % / month	± 2 %		
Hydrogen Sulphide	0 to 50 ppm	± 2 %	2 % / month	± 2 %	14 seconds	> 2 years
Sulphur Dioxide	0 to 20 ppm	± 2 %	2 % / month	± 2 %	7 seconds	> 2 years
Nitrogen Dioxide	0 to 20 ppm	± 2 %	2 % / month	± 2 %	15 seconds	> 2 years
Chlorine	0 to 10 ppm	± 2 %	2 % / month	± 2 %	37 seconds	> 2 years
Oxygen	0 to 25%	± 5 %	10 % / year	± 2 %	5 seconds	> 1 year
Nitric Oxide	0 to 100 ppm	± 5 %	2 % / month	± 2 %	9 seconds	> 2 years
Hydrogen	0 to 1000 ppm	± 1 %	2 % / month	± 2 %	13 seconds	> 2 years

Electrical Details - TX6373.01

GROUP I APPLICATIONS (12 V)

When used in conjunction with an approved power source

Output signal:	4 to 20 mA	0.4 to 2 V
Maximum load:	275 Ω at 12 V dc	10k Ω
Supply:	6.5 to 16.5V dc	6.5 to 16.5 V dc
Current Max:	24 mA	10 mA

Electrical Details - TX6373.02

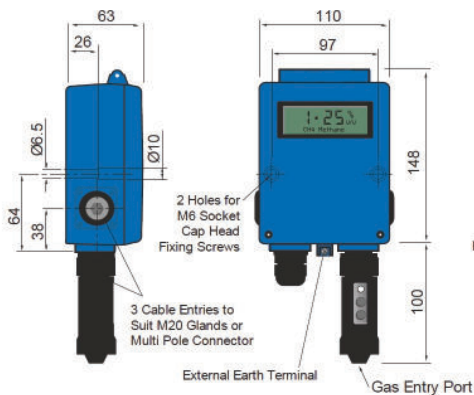
GROUP II APPLICATIONS (24 V)

When used with safety barriers or approved apparatus

Output signal:	4 to 20 mA
Maximum load:	875 Ω at 24 V dc
Supply:	6.5 to 30V dc
Current Max:	24 mA (2 wire line - powered)

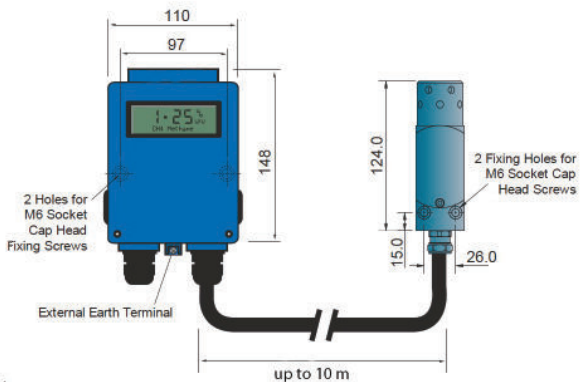
Dimensions - TX6373

Toxic Gas Detector with
Integral Sensor



Dimensions - TX6373.84

Toxic Gas Detector
with Remote Sensor



All dimensions in mm

Order Reference - TX6373.01.

Toxic Gas Detector with Integral Sensor Group I



Output		Gas Range		Format		Certification	
4 - 20 mA	12	CO 0 - 50 ppm	250.50	transmitter only	00	ATEX Grpl	01
		CO 0 - 250 ppm	250.250	transmitter & sensor	01	MASC Grpl	05
		CO 0 - 500 ppm	250.500			ANZEx Grpl	10
		CO 0 - 1000 ppm	250.1k			EAC Grpl	14
		CO 0 - 2000 ppm	250.2k				
		H ₂ S 0 -20 ppm	251.20				
		H ₂ S 0 - 50 ppm	251.50				
		H ₂ S 0 - 100 ppm	251.100				
		SO ₂ 0 - 20 ppm	252.20				
		CL ₂ 0 to 10 ppm	255.10				
		O ₂ 0 to 25 ppm	257.25				
		NO 0 - 50 ppm	259.50				

Order Reference - TX6373.84.01.

Toxic Gas Detector with Remote Sensor Group I



Output		Gas Range		Format		Certification		Cable Length		
4 - 20 mA	12	CO 0 - 50 ppm	250.50	transmitter only	00	ATEX Grpl	01	transmitter only	00	
		H ₂ S 0 to 20 ppm	251.20	transmitter & sensor	01	MASC Grpl	05	1 m	01	
		NO ₂ 0 to 20 ppm	254.20				ANZEx Grpl	10	1.5 m	02
		CL ₂ 0 to 10 ppm	255.10				EAC Grpl	14	2 m	03
		O ₂ 0 to 25 ppm	257.25						2.5 m	04
									3 m	05
									3.5 m	06
									4 m	07
									4.5 m	08
									5 m	09
									5.5 m	10
									6 m	11
									6.5 m	12
									7 m	13
									7.5 m	14
									8 m	15
									8.5 m	16
									9 m	17
									9.5 m	18
							10 m	19		

Order Reference - TX6373.84.02.**Toxic Gas Detector with Remote Sensor Group II**

Output		Gas Range		Format		Certification		Cable Length	
4 - 20 mA	12	CO 0 - 50 ppm	250.50	transmitter only	00	ATEX GpII	02	transmitter only	00
		H ₂ S 0 to 20 ppm	251.20	transmitter & sensor	01	ANZEx GpII	11	1 m	01
		NO ₂ 0 to 20 ppm	254.20			CAC GpII	15	1.5 m	02
		CL ₂ 0 to 10 ppm	255.10			MASC GpII	16	2 m	03
		O ₂ 0 to 25 ppm	257.25					2.5 m	04
								3 m	05
							3.5 m	06	
							4 m	07	
							4.5 m	08	
							5 m	09	
							5.5 m	10	
							6 m	11	
							6.5 m	12	
							7 m	13	
							7.5 m	14	
							8 m	15	
							8.5 m	16	
							9 m	17	
							9.5 m	18	
							10 m	19	

Order Reference - Replacement Gas Sensors

P5487.121

Integral Gas Sensor



Gas Range		Certification		Cable Length	
CO 0 - 50 ppm	250.50	ATEX Grpl	01	No Cable	00
CO 0 - 250 ppm	250.250	MASC Grpl	05		
CO 0 - 500 ppm	250.500	ANZEx Grpl	10		
CO 0 - 1000 ppm	250.1k	EAC Grpl	14		
CO 0 - 2000 ppm	250.2k	ATEX GrplII	02		
H ₂ S 0 - 20 ppm	251.20	ANZEx GrplII	11		
H ₂ S 0 - 50 ppm	251.50	EAC GrplII	15		
H ₂ S 0 - 100 ppm	251.100	MASC GrplII	16		
SO ₂ 0 - 20 ppm	252.20				
CL ₂ 0 to 10 ppm	255.10				
O ₂ 0 to 25 ppm	257.25				
NO 0 - 50 ppm	259.50				

Order Reference - TX6373.84.02.

Toxic Gas Detector with Remote Sensor Group II



Output		Gas Range		Format		Certification		Cable Length			
4 - 20 mA	12	CO 0 - 50 ppm	250.50	transmitter only	00	ATEX GcpII	02	transmitter only	00		
		H ₂ S 0 to 20 ppm	251.20	transmitter & sensor	01	ANZEx GcpII	11	1 m	01		
		NO ₂ 0 to 20 ppm	254.20					EAC GcpII	15	1.5 m	02
		CL ₂ 0 to 10 ppm	255.10					MASC Groll	16	2 m	03
		O ₂ 0 to 25 ppm	257.25					2.5 m	04		
								3 m	05		
								3.5 m	06		
								4 m	07		
								4.5 m	08		
								5 m	09		
								5.5 m	10		
								6 m	11		
								6.5 m	12		
								7 m	13		
								7.5 m	14		
								8 m	15		
								8.5 m	16		
								9 m	17		
								9.5 m	18		
		10 m	19								

P5487.1600 Rev B •

At Trolex, we save lives.

We believe that no person should risk their life to earn a living.

We aim to become the world's leading name in health and safety technology through pioneering products that provide real-world benefits to our customers whenever workers operate in hazardous environments.

Enquiries

sales@trolex.com

Telephone

+44 (0) 161 483 1435

Website

trolex.com

Trolex Ltd

Newby Road, Hazel Grove

Stockport, Cheshire

SK7 5DY, United Kingdom

 [/company/trolexUK](https://www.linkedin.com/company/trolexUK)

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