

# TX6373

## Toxic Gas Detector



# TX6373 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



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## 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

# TX6373 Data Sheet

## Electrical Details - TX6373.01

GROUP I APPLICATIONS (12 V)

When used in conjunction with an approved power source

<b>Output signal:</b>	<b>4 to 20 mA</b>	<b>0.4 to 2 V</b>
Maximum load:	275 $\Omega$ at 12 V dc	10k $\Omega$
Supply:	6.5 to 16.5V dc	6.5 to 16.5 V dc
Current Max:	24 mA	10 mA

## Electrical Details - TX6373.02

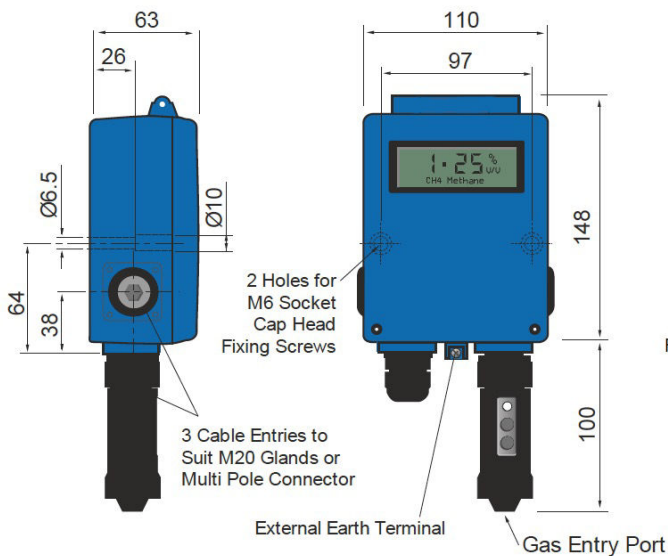
GROUP II APPLICATIONS (24 V)

When used with safety barriers or approved apparatus

<b>Output signal:</b>	<b>4 to 20 mA</b>
Maximum load:	875 $\Omega$ at 24 V dc
Supply:	6.5 to 30V dc
Current Max:	24 mA (2 wire line - powered)

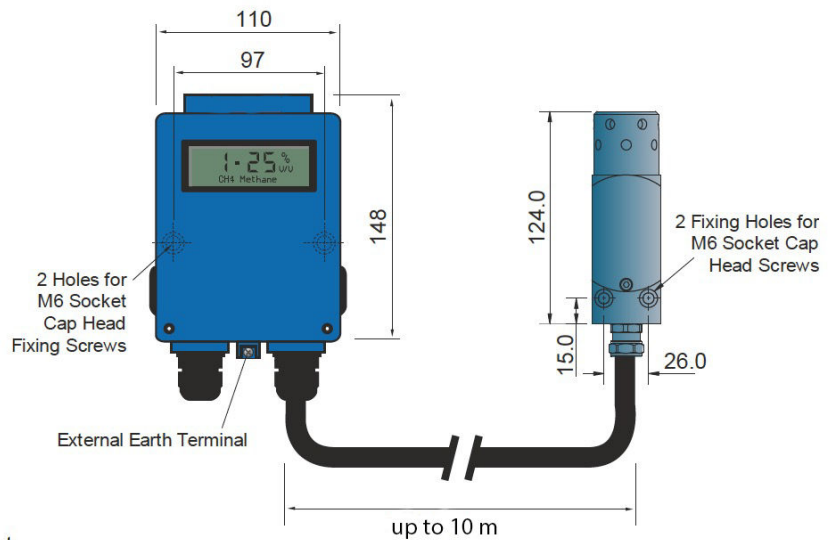
## Dimensions - TX6373

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 <sub>2</sub> S 0 - 20 ppm	251.20				
		H <sub>2</sub> S 0 - 50 ppm	251.50				
		H <sub>2</sub> S 0 - 100 ppm	251.100				
		SO <sub>2</sub> 0 - 20 ppm	252.20				
		CL <sub>2</sub> 0 to 10 ppm	255.10				
		O <sub>2</sub> 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 <sub>2</sub> S 0 to 20 ppm	251.20	transmitter & sensor	01	MASC Grpl	05	1 m	01
		NO <sub>2</sub> 0 to 20 ppm	254.20			ANZEx Grpl	10	1.5 m	02
		CL <sub>2</sub> 0 to 10 ppm	255.10			EAC Grpl	14	2 m	03
		O <sub>2</sub> 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 - TX6373.02.

### Toxic Gas Detector with Integral Sensor Group II



Output		Gas Range		Format		Certification	
4 - 20 mA	12	CO 0 - 50 ppm	250.50	transmitter only	00	ATEX GrpII	02
		CO 0 - 250 ppm	250.250	transmitter & sensor	01	ANZEx GrpII	11
		CO 0 - 500 ppm	250.500			EAC GrpII	15
		CO 0 - 1000 ppm	250.1k			MASC GrpII	16
		CO 0 - 2000 ppm	250.2k				
		H <sub>2</sub> S 0 -20 ppm	251.20				
		H <sub>2</sub> S 0 - 50 ppm	251.50				
		H <sub>2</sub> S 0 - 100 ppm	251.100				
		SO <sub>2</sub> 0 - 20 ppm	252.20				
		CL <sub>2</sub> 0 to 10 ppm	255.10				
		O <sub>2</sub> 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 GrpII	02	transmitter only	00
		H <sub>2</sub> S 0 to 20 ppm	251.20	transmitter & sensor	01	ANZEx GrpII	11	1 m	01
		NO <sub>2</sub> 0 to 20 ppm	254.20			EAC GrpII	15	1.5 m	02
		CL <sub>2</sub> 0 to 10 ppm	255.10			MASC GrpII	16	2 m	03
		O <sub>2</sub> 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

### TX5487.121.

#### Integral Gas Sensor



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

### P5487.126.

#### Remote Gas Sensor



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

## At Trolex, we save lives.

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

Our aim is 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.

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