

TX6383

Flammable Gas Detector



TX6383 Data Sheet

Flammable Gas Detector

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

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

Features

- High stability, poison resistant catalytic sensing element for a wide range of flammable gases
- Plug-in precalibrated gas sensing module for ease of maintenance
- Convenient push button calibration
- 4 to 20mA or 0.4 to 2V output signal
- Graphic LCD readout of gas concentration and setup display
- SIL1 and SIL2 accreditations
- ATEX, ANZEx & EAC certification for use Group I & Group II hazardous areas. Please refer to the User Manual for full certification details
- Optional heavy duty remote mounted sensor for machine monitoring applications



TX6383.84

With Remote Gas Sensor

- Fitted with flexible cable in flexible armoured conduit
- Up to 7m cable length in 0.5m increments
- Machined brass for use on machinery and in heavy duty working environments



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Technical Details - TX6383

Operating temperature:	-10°C to 40°C
Storage temperature:	-20°C to 50°C
Ambient pressure:	1013 mbar ± 100 mbar absolute
Humidity:	95% RH non-condensing
Protection classification:	IP65 (Gas inlet port: IP54)
Housing Material:	Electrically dissipative polymer
Nett Weight:	450g
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 Group I and Group II

Gas Sensor

Measuring range:	0 to 4% v/v CH4 0 to 5% v/v CH4 0 to 100% LEL CH4 (4.4%) 0 to 100% LEL CH4. (5.0%)
Linearity:	±1% up to 60% FS. ±5% up to 100% FS
Drift:	±0.25% v/v per month at 25°C
T90 response time:	<30 seconds
Sensing element life:	>5 years in clean air
Warm up time:	<15s
Calibration:	Intergral, security protected push buttons for onsite calibration



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Electrical Details - TX6383.01

GROUP I APPLICATIONS (12 V)

When used in conjunction with an approved power source

Output signal:	4 to 20 mA	0.4 to 2V
Maximum load:	140 Ω at 12V dc	10k Ω
Supply:	6.5 to 16.5V dc	6.5 to 16.5V dc
Current Max:	100mA	80mA

Electrical Details - TX6383.02

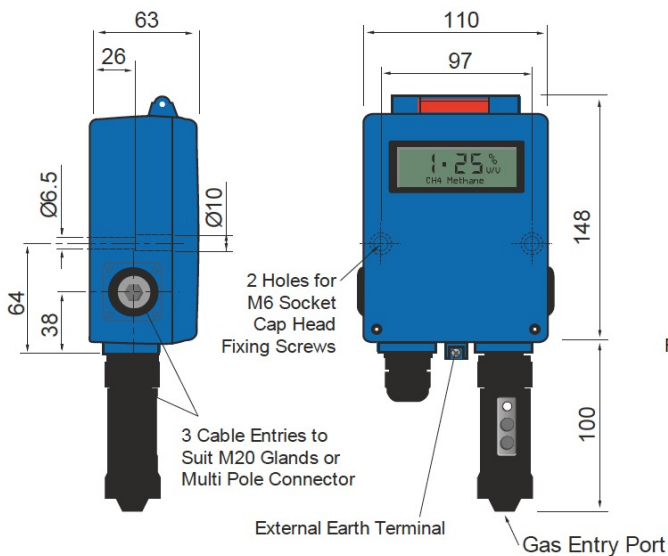
GROUP II APPLICATIONS (24 V)

When used with safety barriers or approved apparatus

Output signal:	4 to 20 mA
Maximum load:	240 Ω at 12V dc
Supply:	6.5 to 30V dc
Current Max:	100mA

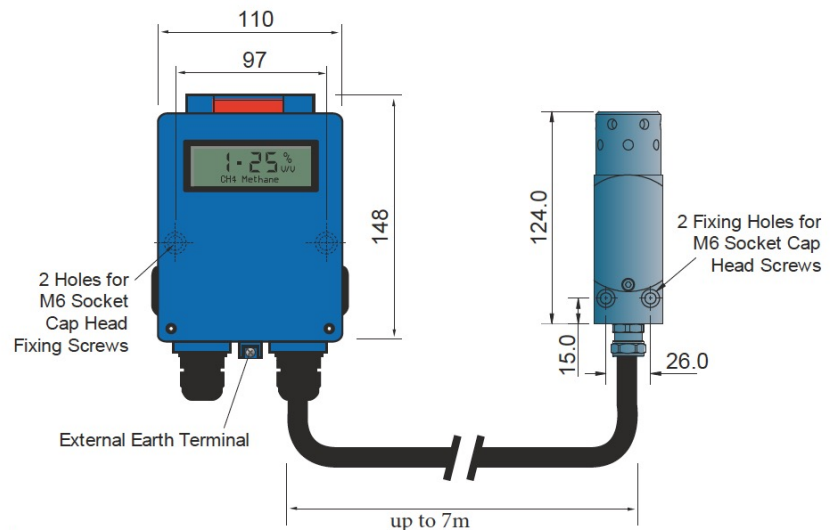
Dimensions - TX6383

Flammable Gas Detector
with Integral Sensor



Dimensions - TX6383.84

Flammable Gas Detector
with Remote Sensor



All dimensions in mm

TX6383 Data Sheet

Order Reference - TX6383.01.

Flammable Gas Detector with Integral Sensor Group I



TX6383.01.

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Output Signal	
0.4 to 2V	11
4 to 20mA	12

Gas Range	
CH4 0-4%v/v	246
CH4 0-5%v/v	244
CH4 0-100% LEL (4.4%)	240
CH4 0-100% LEL (5%)	241

Certification	
ATEX Grpl	01
ANZEx Grpl	10
EAC Grpl	14

Format	
Transmitter only	00
Transmitter + sensor	01

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Order Reference - TX6383.84.01.

Flammable Gas Detector with Remote Sensor
Group I



TX6383.84.01.

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Output Signal	
0.4 to 2V	11
4 to 20mA	12

Gas Range	
CH4 0-4%v/v	246
CH4 0-5%v/v	244
CH4 0-100% LEL (4.4%)	240
CH4 0-100% LEL (5%)	241

Format	
Transmitter only	00
Transmitter + sensor	01

Certification	
ATEX Grpl	01
ANZEx Grpl	10
EAC Grpl	14

Cable length	
Transmitter only	00
1m	01
1.5m	02
2m	03
2.5m	04
3m	05
3.5m	06
4m	07
4.5m	08
5m	09
5.5m	10
6m	11
6.5m	12
7m	13

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Order Reference - TX6383.02.

Flammable Gas Detector with Integral Sensor Group II



TX6383.02.



Output Signal	
4 to 20mA	12

Gas Range	
CH4 0-4%v/v	246
CH4 0-5%v/v	244
CH4 0-100% LEL (4.4%)	240
CH4 0-100% LEL (5%)	241

Certification	
ATEX GrpII	02
ANZEx GrpII	11
EAC GrpII	15

Format	
Transmitter only	00
Transmitter + sensor	01

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Order Reference - TX6383.84.02.

Flammable Gas Detector with Remote Sensor
Group II



TX6383.84.02.

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Output Signal	
4 to 20mA	12

Gas Range	
CH4 0-4%v/v	246
CH4 0-5%v/v	244
CH4 0-100% LEL (4.4%)	240
CH4 0-100% LEL (5%)	241

Format	
Transmitter only	00
Transmitter + sensor	01

Certification	
ATEX GrpII	02
ANZEx GrpII	11
EAC GrpII	15

Cable length	
Transmitter only	00
1m	01
1.5m	02
2m	03
2.5m	04
3m	05
3.5m	06
4m	07
4.5m	08
5m	09
5.5m	10
6m	11
6.5m	12
7m	13

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Replacement Gas Sensors



Integral Gas Sensor

P5486.26.

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Gas Range	
CH4 0-4% v/v	246
CH4 0-5% v/v	244
CH4 0-100% LEL (4.4%)	240
CH4 0-100% LEL (5.0%)	241

Certification	
General Purpose	00
ATEX Grpl	01
ATEX GrpII	02
ANZEx Grpl	10
ANZEx GrpII	11
EAC Grpl	14
EAC GrpII	15

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Remote Gas Sensor

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Gas Range	
CH4 0-4% v/v	246
CH4 0-5% v/v	244
CH4 0-100% LEL (4.4%)	240
CH4 0-100% LEL (5.0%)	241

Certification	
General Purpose	00
ATEX Grpl	01
ATEX GrpII	02
ANZEx Grpl	10
ANZEx GrpII	11
EAC Grpl	14
EAC GrpII	15

Cable length	
1m	01
1.5m	02
2m	03
2.5m	04
3m	05
3.5m	06
4m	07
4.5m	08
5m	09
5.5m	10
6m	11
6.5m	12
7m	13

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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