

TEMPERATURE SENSOR/ TRANSMITTER

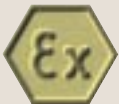


TX6273
REMOTE
TEMPERATURE
SENSING PROBES



TX6274
INTEGRAL AIR
TEMPERATURE
SENSING PROBE

high accuracy
temperature sensor with
integral signal transmitter



A T E X
M 1
GROUP I & II
INTRINSICALLY
SAFE

TUNNELS



MINING



TRENCHES



VESSELS



CONTAINERS



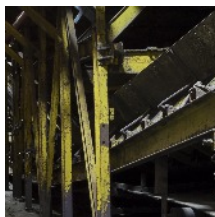
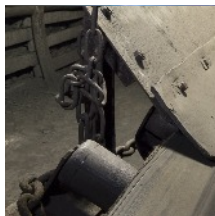
PROCESS PLANTS



STORAGE AREAS



CONFINED AREAS



fast response

for temperature protection in pipes, vessels, bearings, power packs, gearboxes, drive heads, hydraulic circuits, brake shoes, and ambient air temperature.

reliable

Long signal transmission distance with automatic stability control.

choice

- 4...20mA • 0.4...2V • 5...15Hz analogue output signal.
- Optional LCD temperature readout.
- Use with integral or remote sensors.
- Semiconductor sensor or PT100 sensing element compatibility.



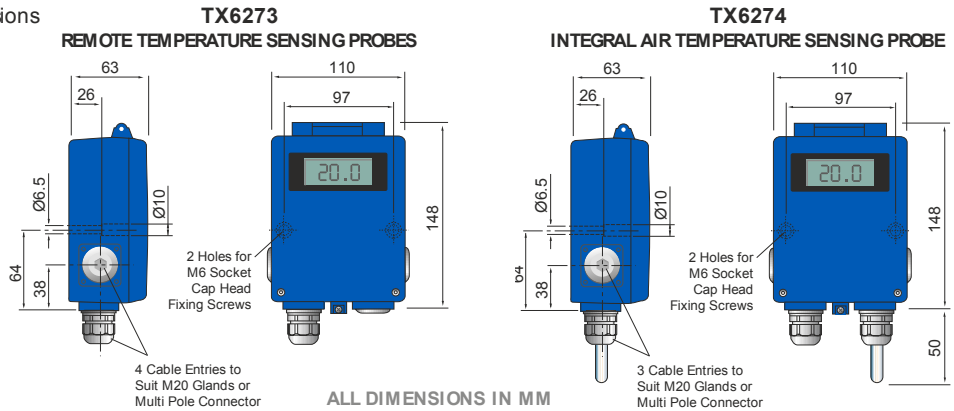
**ATEX
M 1**
 GROUP I & II
 INTRINSICALLY
 SAFE

...simple
 safety
 monitoring

technical data...

	SENSOR INPUT TYPES	
	Semi-conductor	PT100 (TX6273 only)
Temperature Measuring Range:	0...100°C	0...200°C
Overall Accuracy:	±2%	1% (dependent on class of probe)
Repeatability:	±1%	1%
Ambient Temperature Limits:	-10...70°C	
Housing Material:	Stainless steel filled Polyamide 6	
Indicator:	Green 'Power on' LED (on versions without LCD)	
Protection Classification:	Dust and waterproof to IP65	
Electrical Connections:	4mm barrier terminals	
Nett Weight:	500g	
Information Display:	3 1/2 digit LCD calibrated in °C	

Dimensions



electrical data...

**GENERAL PURPOSE AND
 Ex GROUP II APPLICATIONS (24V dc)**

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Output:	4...20mA
Max Load	600 ohms at 24V dc
Supply	10...30V dc
Current	Loop powered

Ex GROUP I APPLICATIONS (12V dc)

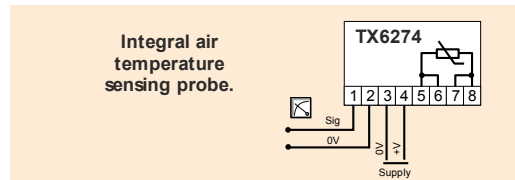
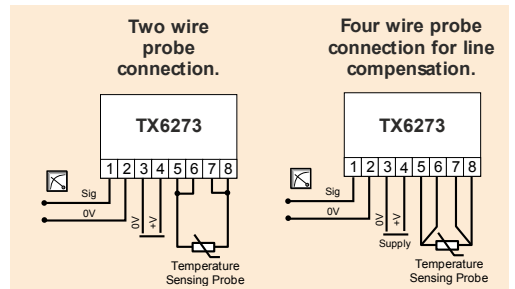
TX6273 • TX6274

Output:	0.4...2V
Min Load	10k ohms
Supply	9...16.5V dc
Current	<10mA

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Output:	5...15Hz
Max Load	200 ohms at 12V dc
Supply	9...16.5V dc
Current	Loop powered

connections...




The output signal from terminals 1 and 4 is a conventional 4...20mA two wire current regulated signal loop. Sensor/transmitter using PT100 or semiconductor sensing probes have very low power consumption so the same loop can be used to also power the sensor. No separate power supply is needed.

Ex
ATEX
M 1
 GROUP I & II
 INTRINSICALLY
 SAFE

order reference...

TX6273 TEMPERATURE SENSOR/ TRANSMITTER
 Remote Sensing Temperature Probe



Please specify:

CERTIFICATION

Intrinsically Safe Group I	(01)
Intrinsically Safe Group II	(02)
General Purpose	(03)

OUTPUT SIGNAL

0.4...2V (Group I only)	(11)
4...20mA	(12)
5...15Hz output available to special order (Group I only)	

SENSOR TYPE

KTY21-6 Semiconductor	(21)
PT100 Resistive	(23)

DISPLAY

With Display	(45)
Without Display	(46)

SENSING PROBES
 Please order separately from
 Technical Datasheet TX2070.



TX6274 TEMPERATURE SENSOR/ TRANSMITTER
 Integral Air Temperature Sensing Probe



Please specify:

CERTIFICATION

Intrinsically Safe Group I	(01)
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General Purpose	(03)

OUTPUT SIGNAL

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4...20mA	(12)
5...15Hz output available to special order (Group I only)	

DISPLAY

With Display	(45)
Without Display	(46)

certification & approval...



Group I TX6273 TEMPERATURE SENSOR/TRANSMITTER:	GROUP I EEx ia I
Group II TX6274 TEMPERATURE SENSOR/TRANSMITTER:	GROUP II EEx ia IIC T4



Designed to comply with the requirements of the EC directive:

- ATEX directive 94/9/EEC
- EMC directive 89/336/EEC

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