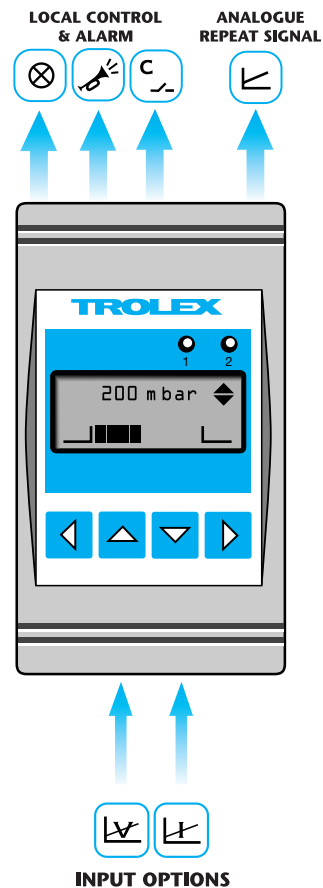


PROGRAMMABLE TRIP AMPLIFIER

COMPLETE VERSATILITY FOR SENSOR MONITORING SYSTEMS

Direct fingertip programming of input and output functions with full information display for sensor monitoring alarms and local control functions.

- Programmable Trip Amplifier with dual set point relays and optional analogue repeater output signal.
- 4...20mA and 0...V standard sensor signals.
- Microprocessor based, menu operated mode selection for all functions:
Scale, units, offset, set points, time delays, relay phase, latching, hysteresis, etc.
- LCD information display of input signal status – also displays all operating mode information.
- Application flexibility with a choice of mounting formats:-
Front of panel, DIN rail or 19" rack mounting.



Choice of Input Signals

CURRENT SIGNALS

TX9031

2 wire or 3 wire process signals.
Fully floating differential input allows several units to be connected in series on the same loop with high noise immunity.



0...20mA.
4...20mA.

VOLTAGE SIGNALS

TX9032

Differential input enables long signal lines with minimal signal loss.



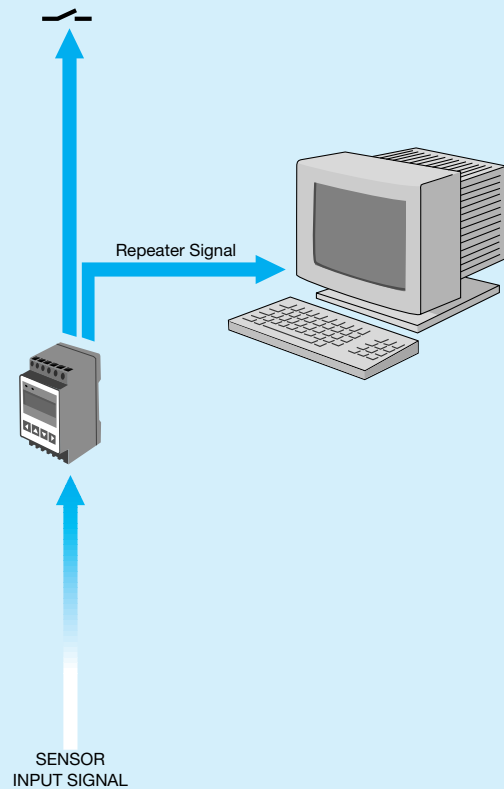
0...2V.
0.4...2V.
0...10V.

Programmable Output Signals

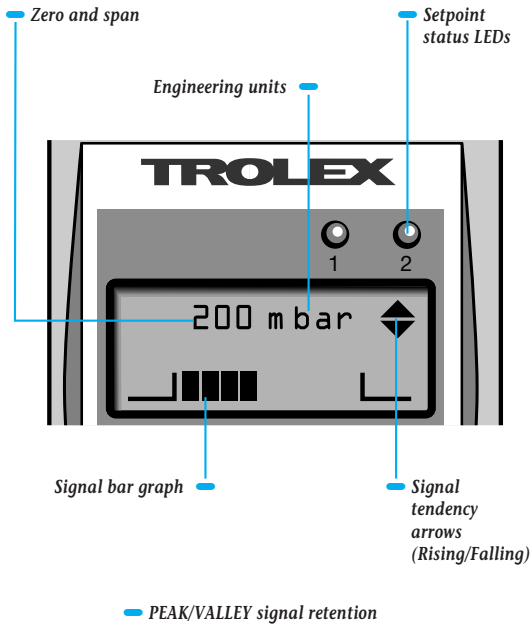
- TWO INDEPENDENT OUTPUT RELAYS.
- SET POINT ALARM LEVELS.
- RELAY FUNCTION – AUTO/LATCH/IMPULSE.
- HYSTERESIS DEAD BAND CONTROL.
- RISING/FALLING ALARM RELAY FUNCTION.
- POWER ON DELAY RUN-UP PERIOD.
- OUTPUT DELAY TIMERS.
- INPUT UPDATE PERIOD.
- PERMANENT MEMORY DATA RETENTION.

ANALOGUE REPEATER OUTPUT SIGNAL

One of the output contacts may be substituted by a 4...20mA analogue repeater output signal for communication with data systems.



Information Display



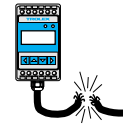
Information Security

All essential information can be protected by a user security code, but still permits access to day to day functions.

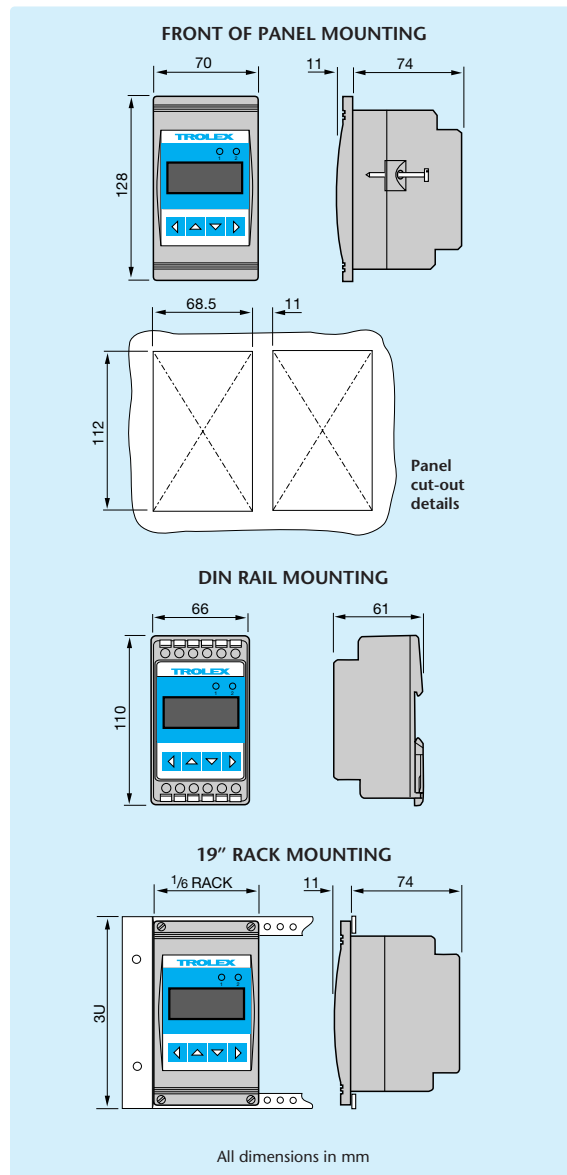


Signal Fault Alarm

Line and input signal monitoring of system failure.



Dimensions



Technical Details

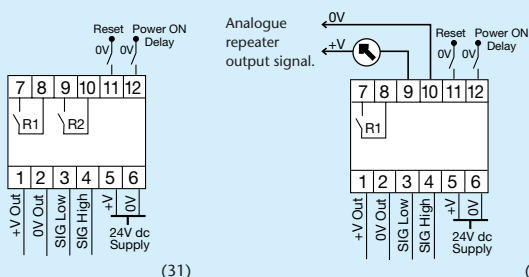
Display Accuracy:	±0.5% (Analogue Signals).
Set Point Accuracy:	±0.5%.
Ambient Temperature Limits:	-10°C...50°C.
Electrical Connections:	4mm barrier/clamp terminals.
Housing Material:	ABS.
Nett Weight:	300gms.
Environmental Protection:	IP55 (IP65 Panel Seal).
Information Display:	LCD. 16 characters x 2 lines 5mm high.
Mounting:	Din Rail EN 50022, 19" Rack or Front of Panel.
Operation:	Microprocessor controlled menu operation, with non-volatile data retention.
Set Point Adjustment:	0...99%.
Hysteresis Adjustment:	0...99%.
Power ON Delay Adjustment:	0...255 seconds.
Output Delay Adjustment:	0...25 seconds.
Engineering Units Menu:	mV, V, mA, °C, °F, g, kg, mbar, bar, Pa, kPa, PSI, %, ppm, %RH, mm, m, m/s, mm/s, m ³ /s, ft, ins, ft/sec, rpm, pps, Hz, kHz, g/m ³ (ASCII code user entry).
Input Signal Averaging Period Adjustment:	0...250 seconds.
Input Signal Failure Alarm:	Open or Short Circuit signal line will de-energise both output relays and display HIGH or LOW SIGNAL ERROR.

Electrical Details

Supply Voltage:	24V dc.
Supply Current:	50mA maximum.
Output Relays:	2 independent relays.
Contact Rating:	5A @ 230V ac.
Contact Format:	NORMALLY OPEN or NORMALLY CLOSED (user selectable).
Repeater Output Signal:	4...20mA analogue.

Connections for Analogue Inputs:

TX9031
TX9032



Order Reference

TX9031 TRIP AMPLIFIER.
(4...20mA).

TX9032 TRIP AMPLIFIER.
(0...10V).

Please specify additional information:

MOUNTING:

Din Rail Mounting	(41)
19" Rack Mounting	(42)
Panel Mounting	(43)

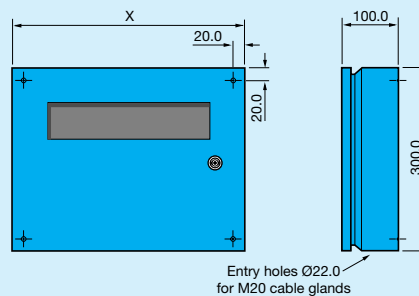
OUTPUT SIGNAL:

Two Relay Contacts	(31)
One Relay Contact/4...20mA	(32)

Housings

Environmentally protected housings for the DIN rail mounting version.

- Robust welded sheet steel enclosure.
- Tough corrosion proof coating.
- Sheet steel front cover with polycarbonate viewing window.
- Environmentally protected to IP66.
- Ample M20 cable entries.
- Mounting rail for TX9030 modules.



Housing	X	Entry holes
TX9202	200mm	5
TX9203	300mm	7
TX9204	400mm	10