Monitronix Europe

Specification - 881 APT



Addressable Pressure Transducer

Introduction

The 881 APT is an advanced, high reliability addressable pressure transducer for pressurised cable monitoring applications.

Features

- High resolution and accuracy
- Solid state Absolute pressure sensor
- Jumper address setting without a transducer tester
- Hardware address setting and calibration
- Ultra compact



Description

Pair Requirements

Relative humidity

The 881APT is an advanced addressable pressure transducer using an ultra low power embedded micro-controller. It is suitable for direct in-joint or external housing applications. Jumper address settings permit the device to be applied conveniently without a tester. Ultra-low quiescent power consumption (50 uA typical) allows this transducer to operate at distances of up to 100 Km (depending on pair gauge and number of installed devices on the same pair). Hardware address setting and calibration ensures that address and calibration can never be altered accidentally.

Technical Characteristics

Pair RC	
(loop resistance x capacitance)	60 milliseconds max
Pair lop resistance	14000 ohms max
Pair insulation	
(leg to leg and leg to earth)	10 Megohms minimum
Environmental	
Temperature – continuous opera	ation -20° to $+60^{\circ}$ C
Transportation and storage	-40° to $+70^{\circ}$ C

0 to 95% non-condensing

evice Parameters	
0.5% of span	
+/- 1% of span	
950 – 1900 Mbar absolute	
2000 Mbar max	
Ultra-fast Solid state (Tranzorb)	
86 x 23 x 16 mm	
3 bp/s PWM addressing,	
20-40 Hz current ripple response	
50 VDC balanced (system supplied)	
<60 uA (quiescent) 1.2 mA (active)	

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