

## Specification – 880 APT

### Addressable Transducer

#### Introduction

The 880 APT is an advanced, high reliability addressable pressure transducer for pressurised cable monitoring applications.

#### Features

- Fully encapsulated
- Electronic address setting using a portable tester
- High resolution and accuracy
- Solid state Absolute pressure sensor
- Unique write protect mechanism
- Ultra compact



#### Description

The 880APT 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. Electronic calibration and address setting permit the device to be encapsulated for extreme reliability. 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). A unique write protect mechanism ensures that address and calibration can never be altered accidentally.

#### Technical Characteristics

Pair Requirements	
Pair RC (loop resistance x capacitance)	60 milliseconds max
Pair loop resistance	14000 ohms max
Pair insulation (leg to leg and leg to earth)	10 Megohms minimum

  

Environmental	
Temperature – continuous operation	-20° to +60° C
Transportation and storage	-40° to +70° C
Relative humidity	0 to 95% non-condensing

Device Parameters	
Resolution	0.5% of span
Accuracy	+/- 1% of span
Measurement range	950 – 1900 Mbar absolute
Over-pressure	2000 Mbar max
Surge protection	Ultra-fast Solid state (Tranzorb)
Size	26 x 12 x 50 mm
Protocol	3 bp/s PWM addressing, 20-40 Hz current ripple response
Power feed	50 VDC balanced (system supplied)
Current draw	<60 uA (quiescent) 1.2 mA (active)

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