## **Monitronix Europe**

## Specification - 882 APT



## Addressable Pressure Transducer

#### Introduction

The Monitronix 882APT is an addressable pressure transducer designed specifically as a direct replacement and interchangeability with existing Lancier and Nicotra "Euro" protocol (time slot) pressure transducers such as Lancier PtxA 210 and Nicotra TP204M. The 882 transducer can be monitored by existing Lancier and Nicotra monitoring systems or by the new Monitronix 800/815/816/817 series systems.



#### **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

The 882APT is an advanced addressable pressure transducer using an ultra low power embedded micro-controller. It is designed specifically as a direct replacement for existing Lancier and Nicotra "Euro" protocol (time slot) pressure transducers such as Lancier PtxA210 and Nicotra TP204M. The 882APT transducer can be monitored by existing Lancier and Nicotra monitoring systems. It can also be monitored by the new Monitronix 800/815/816/817 series systems. Like the transducers it replaces, the 882APT uses a 7 bit binary address allowing up to 127 devices on the same pair. Jumper address setting permits 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 Requirements 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

ENVIOLITIENIA				
Temperature – continuous operation		-20 $^{\circ}$ to +60 $^{\circ}$ C		
Transportation and storage		-40 $^{\circ}$ to +70 $^{\circ}$ C		
Relative humidity	0 to 95%	non-condensing		

Device Parameters	
Resolution	0.5% of span
Accuracy	+/- 1% of span
Measurement range	e 950 – 1900 Mbar absolute
Over-pressure	2000 Mbar max
Surge protection	Ultra-fast Solid state (Tranzorb)
Size	86 x 23 x 16 mm
Protocol	Time slot, 750-2000Hz
	current ripple response
Power feed	50 VDC balanced (system supplied)
Current draw	<60uA (quiescent) 1.2mA (active)

#### Contact Monitronix Europe Ltd.

Email: enquiries@monitronix-europe.com

Tel: +353 (0) 61 303 982

© Monitronix Technology Co., Ltd. 2005 The information in this document is subject to change without prior notice. Monitronix does not assume responsibility for any errors in fact or design in this publication. The publication is provided for general information only and shall not form part of any contract. 882 APT Issue 1.2