

MT883SPT-U & MT883SPT-C - Data Sheet

MINI SOLID STATE DEDICATED PRESSURE TRANSDUCERS 883SPT



MT883SPT-U



MT883SPT-C

Introduction

The MT883SPT-U/C transducers are advanced, high reliability mini solid state dedicated pressure transducers, used to measure the air pressure in a pressurized cable network monitoring application. The unit can be used as a direct replacement for the bellows type resistive transducers and is fully compatible with the Monitronix Cable Pressure Monitoring System and the Sparton Systems retrofitted with Monitronix replacement boards. The unit is programmed using the 860ATT tester and it includes programmable altitude offset compensation.

The MT883SPT-U transducers can be installed inside a splice case, which are typically located underground, and the MT883SPT-C can be installed outside the splice case or above ground, like in street cabinets.

Both transducers operate exactly the same and can be programmed the same. Both are fully encapsulated.

Features

- Fully encapsulated.
- Has a solid-state absolute pressure sensor with programmable altitude offset.
- Higher resolution, accuracy and reliability than the replaced resistive transducers
- Compatible with 800V/H and 818 Monitronix Systems and with retrofitted Sparton Systems.
- Programmed using the standard MT860ATT portable tester.
- Can mixed with other Monitronix solid- state dedicated transducers on the same report pair, up to 8 transducers can be installed in one input.

Contact:

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General Characteristics

Description

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The MT883SPT-U transducers can be installed inside a splice case, which are typically located underground, and the MT883SPT-C can be installed outside the splice case or above ground, like in street cabinets.

Both transducers operate exactly the same and can be programmed the same way. Both are fully encapsulated. The unit uses a power embedded micro-controller and an absolute pressure transducer. The small size makes the unit suitable for direct in-joint or external housing applications. Electronic calibration and address setting allows the device to be encapsulated for extreme reliability. The device can be programmed like a conventional dedicated transducer.

Technical Characteristics

Controller <ul style="list-style-type: none"> Processor 	<ul style="list-style-type: none"> Ultra-low power consumption microcontroller
Electrical Noise Immunity <ul style="list-style-type: none"> Technical Characteristics 	<ul style="list-style-type: none"> Meets CE and FCC Part 15 standards.
Environmental Conditions <ul style="list-style-type: none"> Continuous operation Transportation and storage Relative humidity 	<ul style="list-style-type: none"> -20° to +60° C -40° to +70° C 0 to 95% non-condensing
Power <ul style="list-style-type: none"> Power Voltage Power Consumption 	<ul style="list-style-type: none"> 50 VDC balanced (system supplied) 3 mA max.
Physical Properties <ul style="list-style-type: none"> Dimensions Weight Report Pair 	<ul style="list-style-type: none"> 26 x 12 x 50 mm Approx 18g Black and white wire, 0.63mm
Measurement Performance <ul style="list-style-type: none"> Resolution Accuracy Measurement range Over-pressure Surge protection 	<ul style="list-style-type: none"> 0.5% of span ± 1% of span 950-1900mBar, absolute 2000mBar Ultra-fast Solid state (Tranzorb)
Absolute Maximum Ratings <ul style="list-style-type: none"> Pressure 	<ul style="list-style-type: none"> 4000mBar

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