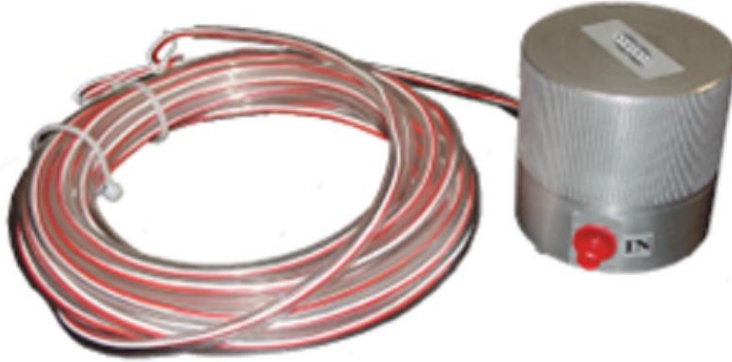


MT873U & MT873AD - Data Sheet

MINI SOLID STATE DEDICATED FLOW BLOCK 873U & 873AD



Introduction

The MT873U & MT873AD are advanced, high reliability, solid state, dedicated flow blocks; which are mainly used to measure single flow in the cable pressurized system in a central office. It can also measure the pressure, temperature and humidity of the dry compressed air. It is fully compatible with Monitronix cable pressure monitoring systems and retrofitted Sparton systems with Monitronix replacement boards. The 873 has two series which are 873U and 873AD. The 873U is generally used in the underground cable. And the 873AD is used in air dryer system.

Features

- Flow, pressure, temperature and humidity measurements included
- Compatible with the universal and dedicated modules of Monitronix systems and retrofitted Sparton systems by Monitronix.
- Usage like conventional dedicated transducer, easy to program.
- Can be intermixed with other Monitronix solid state dedicated products on the same report pair.
- With the advanced transducers and scientific design, less than 0.2 psi pressure drop through the 873.
- Advanced compensation technique gives high accuracy of flow measurement.
- Fully sealed structure, waterproof.
- Drop-in replacement for ageing mechanical type flow panel.

Contact:

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General Characteristics

Description

The solid state dedicated Flow Block 873U & 873AD integrates flow, pressure, temperature and humidity transducers inside a single metal block to measure air flow, pressure, temperature and humidity in the cable pressurized system in the central office of telecommunications. The 873 has an air inlet and an air outlet which can make dry air through. Because of adopting advanced compensation technique, high accuracy of flow measurement can be achieved. It can be used and programmed like conventional dedicated transducers in Monitronix cable pressure monitoring system or/and Sparton system retrofitted by Monitronix. Because allowing multiple solid state dedicated transducers to be operated in one same wire pair, less transducer pairs will be needed in a cable system and the operation cost will be decreased. With its advanced technology and fully sealed structure, it can be widely applied in the cable pressurized system of telecommunications.

Technical Characteristics

| | | | | |
|---|--|--|--|---|
| Controller | <ul style="list-style-type: none"> Processor Ultra-low power consumption microcontroller | | | |
| Electrical Noise Immunity | <ul style="list-style-type: none"> Technical Characteristics Meets CE and FCC Part 15 standards | | | |
| Environmental Conditions | <ul style="list-style-type: none"> Continuous operation Transportation and storage Relative humidity 0° to +50° C -40° to +70° C 0 to 95% non-condensing | | | |
| Power | <ul style="list-style-type: none"> Power Voltage Power Consumption 50 VDC balanced (system supplied) <380 uA (quiescent) 10 mA (Maximum) | | | |
| Physical Properties | 873U | | 873AD | |
| <ul style="list-style-type: none"> Dimensions Weight Mounting Inlet/Outlet Size Pair | <ul style="list-style-type: none"> Φ 68 x 72 mm About 500g 3 x M5 screws G1/4 Red and white wires | | <ul style="list-style-type: none"> Φ 76 x 88 mm About 900g 3 x M5 screws G3/4 Red and white wires | |
| Measurement Performance | 873U-1 | 873U-2 | 873AD-1 | 873AD-2 |
| <ul style="list-style-type: none"> Measurement Range Flow Pressure Temperature Humidity | <ul style="list-style-type: none"> 100 SCFH 0-14.5 Psi 0-100 °C 0-100%RH | <ul style="list-style-type: none"> 100 SCFH 0-14.5 Psi | <ul style="list-style-type: none"> 10000 SCFD 0-100 Psi 0-100 °C 0-100%RH | <ul style="list-style-type: none"> 30000 SCFD 0-100 Psi 0-100 °C 0-100%RH |
| <ul style="list-style-type: none"> Measurement Accuracy Flow Pressure Temperature Humidity | <ul style="list-style-type: none"> ± 2% of span ± 0.15 Psi for 873U, ± 0.5 Psi for 873AD ± 1 °C ± 2%RH(0-30%), ± 3%RH(30-80%), ± 5%RH(80-100%) | | | |
| Absolute Maximum Ratings | | | | |
| <ul style="list-style-type: none"> Flow Pressure | <ul style="list-style-type: none"> 200 SCFH 50 Psi | | <ul style="list-style-type: none"> 15000 SCFD 350 Psi | <ul style="list-style-type: none"> 45000 SCFD 350 Psi |

Email: technicalsupport@vpsolutionsgroup.com **Web:** www.vpsolutionsllc.com