

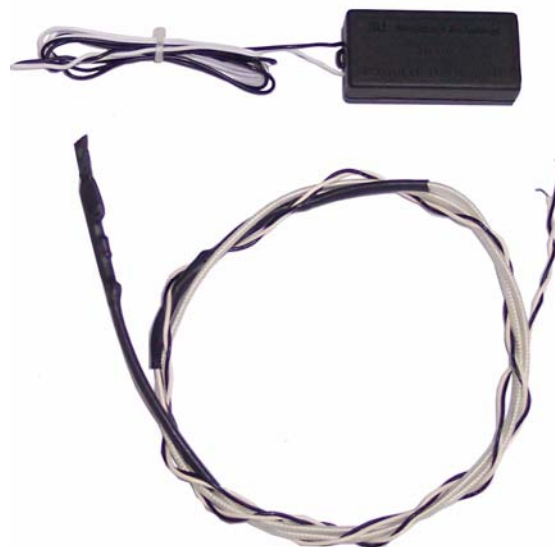
Addressable Moisture Transducer

Introduction

The 886AMT is an advanced, high reliability addressable moisture transducer to detect the presence of moisture in contained areas.

Features

- Fully encapsulated circuit, ultra compact
- Electronic address setting using a portable tester
- Built-in over voltage protection
- Reusable and reliable moisture sensor
- Unique write protect mechanism
- Can be intermixed with other Monitronix addressable products on the same report pair



Description

The 886AMT is an advanced addressable moisture transducer using an ultra low power embedded micro-controller. It is designed to detect the presence of moisture in contained areas which includes underground, buried and aerial slice cases, terminals and closures. Electronic calibration and address setting permit the device to be encapsulated for extreme reliability. Ultra-low quiescent power consumption (50uA 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. Besides, 886AMT can be intermixed with other Monitronix addressable products on the same report pair.

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

Measurement output	Moisture level
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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