

Addressable Temperature & Humidity Transducer

Introduction

The 887 is an advanced, high reliability addressable temperature and humidity transducer series for air temperature and humidity monitoring applications, which includes addressable temperature and humidity transducer 887AHT, addressable temperature transducer 887ATT and addressable humidity transducer 887AHT.

Features

- Fully encapsulated
- Electronic address setting using a portable tester
- High resolution and accuracy
- Solid state temperature sensor
- Humidity sensor with molded thermoset plastic housing with cover
- Unique write protect mechanism
- Ultra compact



Description

The 887AHT/ATT/AHT is an advanced addressable temperature and humidity transducer series 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 & capacitance)	60 millisecc max
Pair loop resistance	14000 ohms max
Pair insulation (leg to leg & leg to earth)	10 megohms max

Environmental Conditions	
Continuous operation	0° to +50° C
Transportation and storage	-40° to +70° C
Relative humidity	0 to 95% non-condensing

Device Parameters	
Resolution	0.5% FS
Accuracy - temperature	± 2%
Accuracy - humidity	± 3%
Measurement range	
Temperature	0-70°C
Humidity	0-100% Rh
Surge Protection	Ultra fast Solid State (Tranzorb)
Size	26 x 12 x 50 mm
Power feed	50 VDC balanced (system supplied)
Current Draw	< 60 uA (quiescent) 2.0 ± 0.5mA (active)

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