Monitronix Europe

Specification - 887ATHT/887ATT/887AHT



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 887ATHT, 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

MONITRONIX TECHNOLOGY O-100/ALT MONITRONIX TECHNOLOGY Gefal No. 100001 Address MONITRONIX TECHNOLOGY O-70T 887ATT Addressable Temperature Transducer Serial No. 100001 Address Serial No. 100001 Code MONITRONIX TECHNOLOGY O-70T 887ATT Addressable Temperature Transducer Serial No. 100001 Code

Description

Pair Requirements

The 887ATHT/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 RC (loop resistance & capacitance)

	60 millisec max
Pair loop resistance	14000 ohms max
Pair insulation (leg to leg & le	eg to earth
	10 megohms max
Environmental Conditions	
Continuous operation	0° to +50° C
Transportation and storage	-40° to $+70^{\circ}$ C
Palativa humidity	0 to 05% non-condensing

Device Parametres	
Resolution	0.5% FS
Accuracy - temperature	<u>+</u> 2%
Accuracy - humidity	<u>+</u> 3%
Measurement range	
Temperature	0-70
Humidity	0-100% Rh
Surge Protection	Ultra fast Solid State (Tranzorb)
Size	26 x 12 x 50 mm
Power feed 50 VD	C balanced (system supplied)
Current Draw <60 ųA (qu	uiescent) 2.0 \pm 0.5mA (active)

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