

HUM-01F/FP

Humidity Sensor Module

30.5.2007



Features

- Relative humidity measurement
- Dew point calculation (FP)
- Measurement range 0 – 100% RH
- Factory calibrated
- Linet connection

Application

- Data logging
- Humidity transmitter
- Building humidity monitoring
- Excessive Humidity alert
- Climate control

Description

HUM-01F- module measures humidity with digital sensor technology. Module offers excellent long-term stability and

accuracy. Due to state of the art measurement technology response time is extremely fast (< 4sec.). Module is factory calibrated to outstanding +/- 3% accuracy.

Instructions

CAT6 type Linet cable shall be connected to the network connector. After system is powered up the module shall be configured as DATA12 group type. After that the module transmits 12-bit data value relative to the measured humidity.

Relative Humidity measurement data:

Calculation formula:

Data value /10 = % RH

Example:

Data 335 = 33.5 % RH

Dew Point measurement data:

Calculation formula:

(Data value -1000)/10 = dew point in celcius

Example:

Data 928 = -7.2 celcius

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Technical specifications

Parameter	Value	Unit
Measurement range	0 – 100%	RH
Accuracy (5-95%RH range)	+/-3%	RH
Resolution	0,1	%
Dew point Temp accuracy	+/-0.4	Celcius
Operating temperature	-25 ...+80	Celsius
Dimensions	50 x 66.5 x 20	Mm

Ordering

HUM-01F Humidity sensor module
HUM-01FP Dew Point measurement module
MIO02-H Wall mounting humidity sensor module