



# ALIAEMT

## Relative Humidity Transmitter

### Model ARH950 Series

## GENERAL

**ALIAEMT** ARH950 Series Wall/Duct mount Relative Humidity Transmitter is the most versatile transmitter in the market. ARH950 combines high accuracy, stability and reliable operation, making these products the ideal choice for demanding applications.

## FEATURES

- ❑ Two Line LED (LCD) display, directly read the RH & temperature
- ❑ Accuracy up to +/-2%RH
- ❑ DIP switch selectable signal input of Temperature
- ❑ 4 wire, 4-20mA x 2 for both Humidity & Temperature output
- ❑ Small, light and easy to be installed
- ❑ Full 0 - 100%RH measurement
- ❑ RH 0.1%, Temperature 0.1 °C Resolution
- ❑ 8 seconds fast response time

## STANDARD SPECIFICATION

- Measuring Range
  - Relative Humidity : 0 ~ 100%RH
  - Temperature : 0~50 / -20~+80 / -40~+60 °C (DIP Switch)
- Accuracy
  - Relative Humidity : +/-2%RH @ 25 °C
  - Temperature : +/-0.3 °C @ 25 °C
- Resolution
  - Relative Humidity : 0.1%RH
  - Temperature : 0.1 °C
- Repeatability : +/-0.1% typical
- Humidity Drift : <0.5%RH/Year
- Temperature Drift : <0.1 °C/Year
- Operating Temperature : -20 °C to 70 °C
- Storage Temperature : -10 °C to 60 °C
- Storage Humidity : 0% to 90%RH
- Material
  - Electrical Housing : ABS (Duct) / PC (Wall)
  - Aluminum Alloy (Duct, IP65)
  - Probe : ABS(Duct), S.S.316 (Duct,IP65)
  - Flange : PC (Polycarbonate)
  - Sensor Housing : PC (Polycarbonate)
- Protection Class
  - Duct Mount : IP54 / IP65
  - Wall Mount : IP44
- Display : RH 0.0 ~ 99.9% LED (LCD)  
: Temperature +/- 99.9 °C
- Output
  - Relative Humidity : 4-20 mA
  - Temperature : 4-20 mA
  - Load : Rohm=(VDC-12) x 50
- Response Time : 8 seconds
- Turn on Time : 3 Seconds
- Power Supply : 9-36VDC
- Power Consumption : <50mA @24VDC
- Electrical Connections : PG9 Conduit Threads (Duct Mount)  
: Screw Terminal Block (Wall Mount)
- Screw Terminal : 0.5 to 1.5 mm2
- Dimensions
  - Duct Mount : 83mm(L) X 83mm(W) X 250mm(H)
  - Wall Mount : 100mm(L) X 83mm(W) X 23mm(D)
- Weight
  - ARH950-D : 146 g
  - ARH950-W : 83 g
  - ARH950-P : 810 g
- EMI/RFI Effect : Follow SAMA PMC 33.1 from 20 to 1000 MHz and for field strengths up to 30V/m
- Vibration Effect : +/-0.1% of Full Scale Per g to 200Hz in any axis

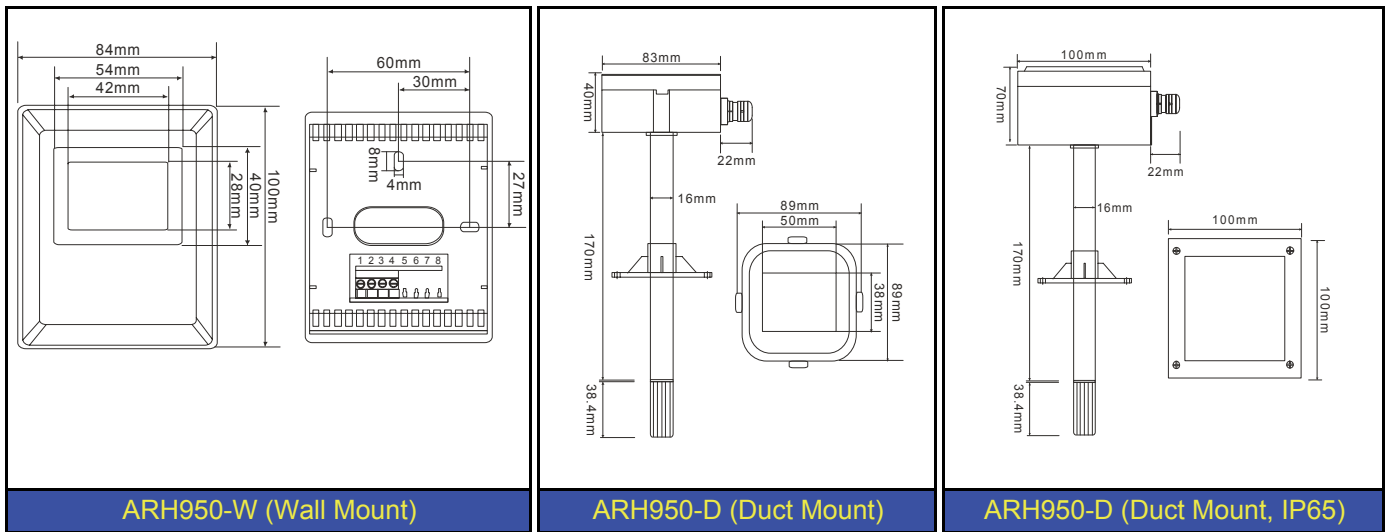


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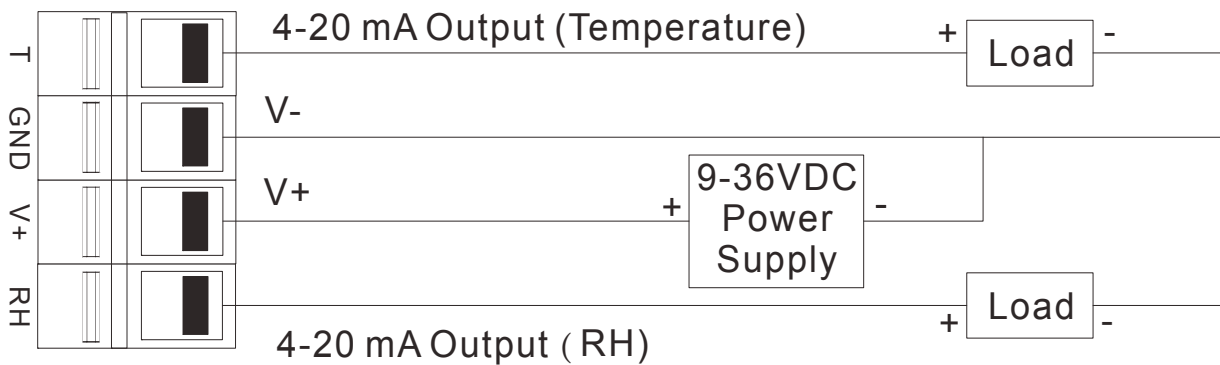
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**➤ DIMENSIONS**



**➤ WIRING DIAGRAM**



**➤ MODEL SELECTION GUIDE**

ARH950 Series				
Example: ARH950-DN1-N				
ARH950-	X	X	X	-X
Installation	W	Wall Mount		
	D	Duct Mount		
	P	Duct Mount, IP65, Aluminum Housing, Stainless steel 316 Tube, ** IP65 without Display		
Display	N	None		
	D	Two Line LED (LCD), 3 Digit Temperature, 3 digit Humidity (Only for Installation D & W)		
Temperature Range	1	0 ~ 50 °C		
	2	-20 ~ +80 °C		
	3	-40 ~ +60 °C		
Option	-N	Standard		
	-S	Separate with 10M Cable (Duct Mount Only)		