Livestock Humidity & Temperature Sensor LS-ATH15

SKU: LS-ATH15

Doc No: LS-ATH15-DS-EN-10

Introduction

LS-ATH Humidity and Temperature Sensor utilize a digital temperature sensor that delivers high accuracy measurement in range -40 to + 85 oC for monitoring the livestock environment. Customers can select different types of output to meet their system requirements such as RS485/ModbusRTU, 0-10V, and 4-20mA for easily integrating with any PLC, controller, SCADA, BMS or IoT gateway.

- Digital sensor technology;
- High accuracy;
- Various output types;
- Plug & Play.

Typical Applications

LS-ATH can be used widely in the followings:

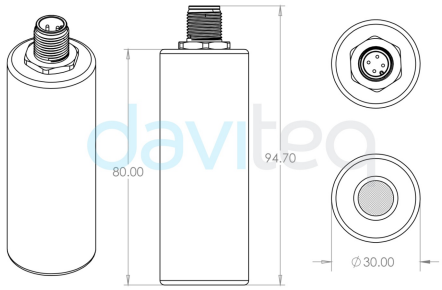
- Ambient Humidity and Temperature Monitoring for Livestock
- Ambient Humidity and Temperature Monitoring for Factory, Building, Warehouse, Datacenter, HVAC...

AMBIENT HUMIDITY & TEMPERATURE SENSOR
WITH MODBUS OUTPUT
MBRTU-ATH

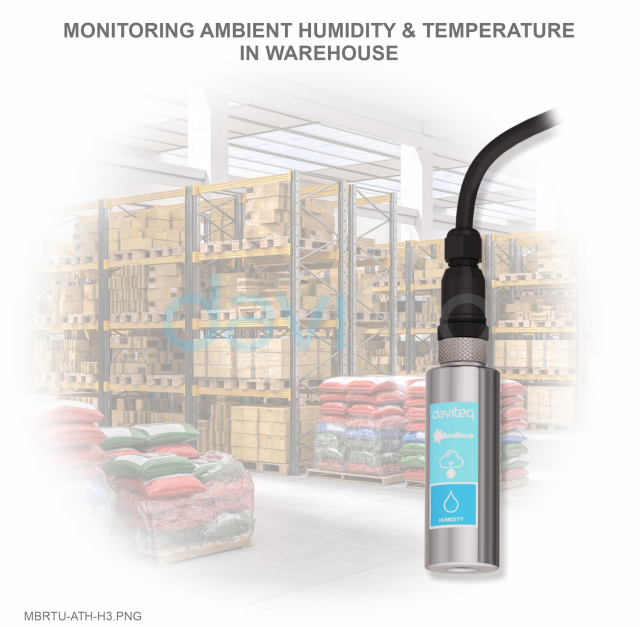


MBRTU-ATH-H1.PNG

DIMENSION DRAWING OF MODBUS OUTPUT SENSOR
(Unit: mm)



MBRTU-ATH-H2.PNG



MBRTU-ATH-H3.PNG

Specification

Sensor technique	Digital type, factory calibrated, output both Humidity & Temperature values
Humidity measuring range	0 .. 100 %RH
Humidity accuracy	+/- 1.8% RH typical in 30-70%RH range and 0-80 oC
Humidity resolution	0.1%
Temperature measuring range	-40 .. + 120 oC
Temperature accuracy	+/- 0.5 oC in 0-100 oC range
Temperature resolution	0.1 oC
Sensor protection	Teflon filter
Output	Select one of the below output types: * RS485, ModbusRTU protocol, max 19200 baud * 2 x current output 4-20mA * 2 x voltage output 0-10VDC
Power supply	12..36VDC, avg. < 200mA
Connector	M12-male 4-pin Code A
Working temperature	-40 .. 85 oC
Working humidity	0 .. 100% RH
Housing	Engineering plastic
Rating	IP67
Dimension	H100xD30 (without sensor cable)
Mounting	Wall mount bracket
Net weight	<200 grams

Ordering Code

Item code	Descriptions
LS-ATH15-MB	AMBIENT HUMIDITY AND TEMPERATURE SENSOR, INTEGRATED TYPE, -40 .. + 85 C, RS485/MODBUSRTU, 12..36VDC SUPPLY, M12-MALE CONNECTOR, WITH SENSOR PROTECTION COVER
LS-ATH15-A	AMBIENT HUMIDITY AND TEMPERATURE SENSOR, INTEGRATED TYPE, -40 .. + 85 C, 02 CURRENT OUTPUTS 4-20MA DC, 12..36VDC SUPPLY, M12-MALE CONNECTOR, WITH SENSOR PROTECTION COVER
LS-ATH15-V	AMBIENT HUMIDITY AND TEMPERATURE SENSOR, INTEGRATED TYPE, -40 .. + 85 C, 02 VOLTAGE OUTPUT 0-10V, 12..36VDC SUPPLY, M12-MALE CONNECTOR, WITH SENSOR PROTECTION COVER
Please select below M12 cable with different lengths	
2M-FM12CAB4X0.25	M12 4PIN FEMALE ASSEMBLY CONNECTOR WITH SOLDERING TERMINALS AND CODING A AND CONTROL CABLE CU/PVC/OS/PVC 4X0.25MM2, L=2M, ROHS, SHIELD 80%
5M-FM12CAB4X0.25	M12 4PIN FEMALE ASSEMBLY CONNECTOR WITH SOLDERING TERMINALS AND CODING A AND CONTROL CABLE CU/PVC/OS/PVC 4X0.25MM2, L=5M, ROHS, SHIELD 80%
10M-FM12CAB4X0.25	M12 4PIN FEMALE ASSEMBLY CONNECTOR WITH SOLDERING TERMINALS AND CODING A AND CONTROL CABLE CU/PVC/OS/PVC 4X0.25MM2, L=10M, ROHS, SHIELD 80%

⚠ Link for full datasheet:

⚠ Link for manual:

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