



Masibus RH+T transmitter is designed for excellent accurate humidity and temperature measurement and signal conditioning for a wide range of industrial, pharmaceutical and building automation applications.

HT7S11S transmitter is available in options like wall mount, duct mount, Ex-Proof wall mount for both loop and aux. powered to suite various industrial environments. Transmitter provides linear output signals proportional to relative humidity and temperature.

HT7S11S transmitter provides better than $\pm 2.5\%$ (for 0 to 90% RH) , $\pm 3.5\%$ (for 90 to 100% RH) RH accuracy, ± 0.4 °C temperature accuracy and having digital sensor with fully calibrated, linearized and temperature compensated output. All these devices provide high performance in a compact design loop power transmitter available with or without display and aux. powered version available with display. Transmitter with display is equipped with configuration mode using which user can set zero and span values of input as well as output.

Loop powered 4-20 mA DC output signals can be fed as input to remote display, recorder, controller or PLC/DCS, over a long distance. In aux. power devices, data acquisition can be done on SCADA/ PLC application through RS-485 using modbus protocol.

Two-wire connections allow easy installation directly into air ducts or within a controlled area. Most importantly, the right choice of the filter cap enables usage in harsh environmental conditions.

Loop power model generates 2 nos. 2-wire output that can be assigned to RH or temperature using output mapping configuration.

Features

- Wide loop supply voltage range from 10VDC to 36VDC
- Custom built LCD display
- Configurable temperature unit measurement in celsius/fahrenheit/kelvin
- Available in wall and duct mount
- Configurable by front keypad (Available in device with display)
- High reliability and long-term stability
- High accuracy
- Advanced digital RH+T sensor technology
- Calibration not required for digital RH+T sensor
- PC based software for configuration, calibration & monitoring
- Linearized analog 4-20mA signal output
- In loop power model, output can be configured for 2 x RH outputs, 2 x temperature outputs, or 1 x RH + 1 x T output
- Both output are isolated in loop power model
- Isolated RS-485 communication with aux. powered model
- Ex-Proof protection for gas groups IIA/IIB (for Ex-Proof model)

Applications

- Ideal for HVAC application
- Building automation
 - Pharmaceutical labs/industry
 - Clean rooms
 - Air quality monitor
 - Research laboratories
 - Green house monitor
 - Weather telemetry
- Blood stations, pharmacies
- Data acquisition, analysis and processing

TECHNICAL SPECIFICATIONS

	Input			Communic	ation		
Input Type	Humidity	Temperature		Loop Powere	ed A	Aux. Powered	
Integral	Yes	Yes	Interface	TTL	F	RS-485	
Maagurament Panga	0-100% PH	0 to 60 °C / 32 to 140 °F	Protocol Modbus RTU				
Medsulei Heitt Kaliye	0-100 %KF1	273 to 333 K	Baud Rate 4800, 9600, 19200 bps				
Accuracy@25 °C	±2% (0 to 90% RH)	±0.4 °C	Power Supply				
Accuracy(w25 C	±3% (90 to 100% RH)		Loop Powered Model	10 to 36VDC	with reverse po	larity protection	
Accuracy Over Temp.	±2.5% (0 to 90% RH)	±0.6 °C	Aux. Powered Model	18 to 36 VDC	with reverse po	olarity protection	
Repeatability	0.25%	0.24.90		<0.5W POwer	consumption		
Hysteresis	0.8%	0.24 C X		Isolatio	n		
Resolution	0.1%	0.1 °C	Loop Powered Model	1000Vrms fo	r 1 minute betv	veen loop	
Response Time	12 Sec	c. typically	Loop Fowered Model	output-1 and	output-2		
Long Term Drift	< 0.25% RH/year typical	< 0.03 °C/ year	Aux. Powered Model	1000Vrms for 1 minute between supply ar		veen supply and	
Display & Keys (Optional)			R5-465 OULPUL				
Process Value	2 x 4 digit,7 - segment 0.3	39" LCD		Physica	al		
Kovo	Push button: ENT, ESC, INC for configuration and		Mounting	Wall Mount	Duct Mount	Ex-Proof Wall Mount	
Reys	calibration (Not available	calibration (Not available in Ex-Proof model)		~ 300 gms	~ 500 gms	~1 Kg	
	Output (for loop power mod	lel)	Enclosure Dimension (mm)	80(H) x 82	2(W) x 55(D)	140(H) x 145(W) x 80(D)	
No. of Output	2 (Isolated from each other)		Englocure Material	68mm	213mm	Aluminium alloy I M 6	
Signal	4-20mA (Direct or reverse user configurable)		Enclosure Gas Group Protection	AD	-		
Δοςμέρον	+0.1% of FS	+0.1% of ES		IP-65			
Tomp Co Efficient	<100 ppm	100		PG	7	, M20 Double compression	
remp. co-encient			Cable Terminal Type	2.5 mm2 , AWG 14 wire, screw type		vire, screw type	
Load	Rload = ((loop supply vol	Rload = ((loop supply voltage–10)/0.021) Ohm		SS304			
Sensor Break Output	<3.6 or >21mA programm	<3.6 or >21mA programmable		Nylon (Optional)			
			Filter Material		Sintered SS3	316 filter	
				Environme	ental		
			Operating Temperature	0 to 60°C			
			Storage Temperature	-10° to 70°C			
			Humidity	0% to 100% F	RH (Non-conde	nsing)	
		Orderii	ng Code				
		D	Duc	t Mounting			

Model		Power		Display	Μ	lounting Type	Du	ct Mounting Flange
HT7S11S	Х		Х		ΧХ		Х	
	L	Loop	Υ	Yes	WO	Wall Mount	Ν	No
	Α	Aux.	N*	No	DO	Duct Mount	Υ	Yes
					WX	Ex. Proof Wall Mount		

*Applicable for Loop Power Model

Cable Accessory	for Loop	Power Model	(Extra Cost)
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Part No.	Description
TTS7CC	Configuration cable