

Read this document carefully before using this device. The guarantee will be expired by device demages if you don't attend to the directions in the user manual. Also we don't accept any compensations for personal injury, material damage or capital disadvantages.

ENDA ESHT-102 Relative Humidity and Temperature Transmitter

Thank you for choosing **ENDA ESHT-102** relative humidity and temperature transmitter devices.

- * 0 ... 100.0% RH Humidity Measurement.
- * -40.0 +60°C Temperature Measurement. (For wall-mounted types).
- * -40.0 +125°C Temperature Measurement. (For cabled and duct types).
- * Selectable 0-20mA or 0-10V output.
- * Cabled, Wall-mounted or duct type installations.
- * Screw-terminal Connection.
- * CE Marked according to European Norms.







TECHNICAL SPECIFICATIONS

SPECIFICATIONS	ESHT-102-W-50	ESHT-102-CB-350	ESHT-102-DC-350	
Montage Type	Wall-mounted	1,5m. Cabled.	Duct Mounted	
Immersion Length	50mm	350mm		
Weight	125 gr.	430 gr.	315 gr.	
Humidity Range	0 100 % RH (Shouldn't be icing and condensation in the ambient).			
Temperature Range	-40 +125°C			
	(Shouldn't be icing and condensation in the ambient)			
Accuracy	±2 % RH (20 ~ 80 % for RH range),			
	±4 % RH (0 ~ 100 % for RH range),			
	±0,5°C (for 20 ~ 40°C range),			
	±1°C (for 0 ~ 60°C range),			
	±2°C (for -40 ~ 0°C range). 63% Humidity variation for 7 seconds (with 1m/sec airflow at 25°C).		at 25°C)	
Response Time	63% Temperature variation for 5 seconds (with 1m/sec airflow at 25 °C).			
Supply	15-35V DC or 10-25V AC			
Outputs	0-20mA DC or 0-10V DC selectable on device.			
	(For current output load resistance max. 500Ω).			
Power Consumption	Max. 7VA			
Wiring	1,5mm² screw-terminal connections			
EMC	EN 61326-1: 2013			

ENVIRONMENTAL CONDITIONS		
Ambient/storage temperature	-40 +125°C (Shouldn't be icing and condensation in the ambient.)	
Rated pollution degree	IP65 according to EN 60529	
Height	Max. 2000m	
Δ.		



Do not use the device in locations subject to corrosive and flammable gases.

HOUSING		
Housing type	Wall-mounted.	
Dimensions	L137xW58xH35mm	
Weight	Approx. 150g (after packing)	
Enclosure material	Self extinguishing plastics. (According to EN 60695-11-10 standars V-0)	
Δ		

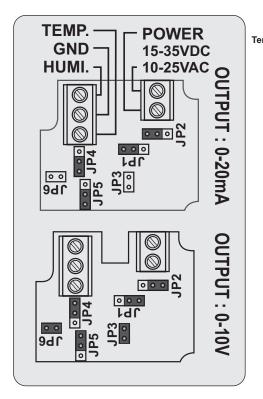


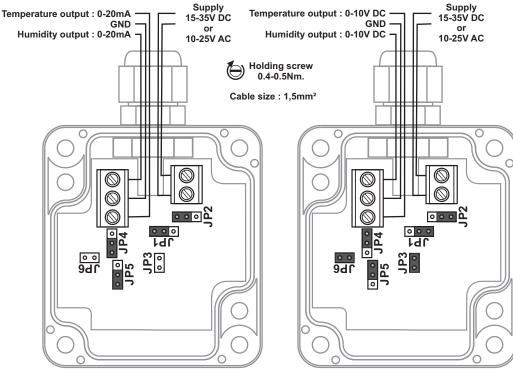
While cleaning the device, solvents (thinner, benzine, acid etc.) or corrosive materials must not be used.





ESHT-102 temperature and humidity outputs of the device can be set to 0-10 V or 0-20 mA. Heat output (JP1, JP2, JP3), humidity output (JP4, JP5, JP6) can be replaced by jumpers.







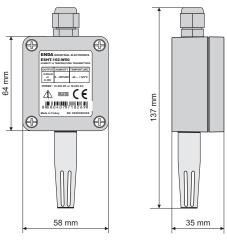
ENDA ESHT-102 Series humidity and temperature transmitter devices are intended for wall-mounted or duct type installations. Make sure that the device is used only for intended purpose. The electrical connections must be carried out by a qualified staff and must be according to the relevant locally applicable regulations. During an installation, all of the cables that are connected to the device must be free of electrical power. The device must be protected against inadmissible humidity, vibrations, severe soiling. Make sure that the operation temperature is not exceeded. The cables should not be close to the power cables or components.

ESHT-102-DC350

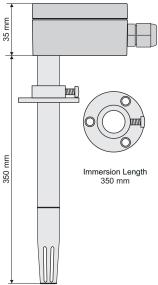
DUCT TYPE

DIMENSIONS

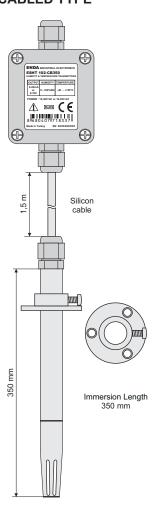
ESHT-102-W50 WALL-MOUNTED



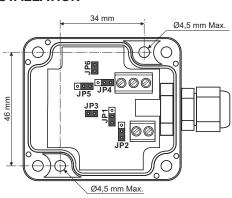
38 mm



ESHT-102-CB350 CABLED TYPE



INSTALLATION





For best measurement, device must be mounted to where the air flow exist and measurement part must turned to down.