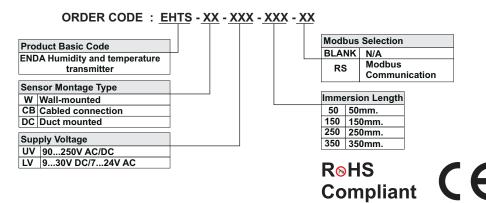
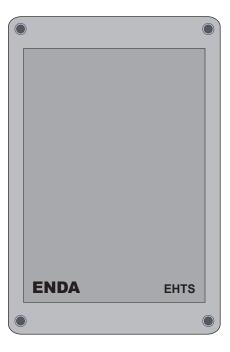
Read this document carefully before using this device. The guarantee will be expired by device demages if you don't attend to the directions in the user manual. Also we don't accept any compensations for personal injury, material damage or capital disadvantages.

# **ENDA EHTS RELATIVE HUMIDITY AND TEMPERATURE TRANSMITTER**

Thank you for choosing ENDA EHTS Humidity and Temperature transmitter devices.

- \* 120x80mm. sized.
- \* Designed for measuring and controlling relative humidity and temperature.
- \* -40~125°C temperature, 0~100 %RH Humidity measurement scale.
- \* Cabled, Wall-mounted or duct type sensors can be selected. (Specify at order).
- \* Selectable analogue 0~20mA, 4~20mA, 0~10V, 1~5V.
- \* RS485 ModBus Communication feature via RTU protocol.
- \* Wall-mounted.
- \* Screw-terminal Connection.
- \* CE Marked according to European Norms.

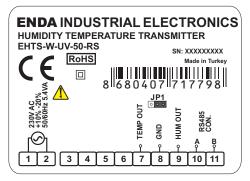


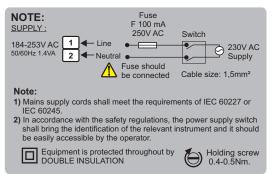


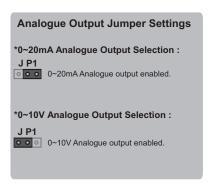
# **CONNECTION DIAGRAM**



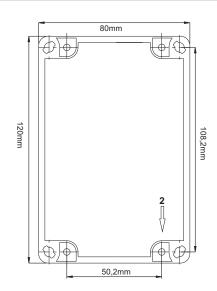
**ENDA EHTS** Series humidity and temperature transmitter devices are intended for wall-mounted installations. Make sure that the device is used only for intended purpose. The electrical connections must be carried out by a qualified staff and must be according to the relevant locally applicable regulations. 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.

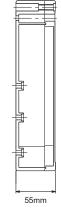






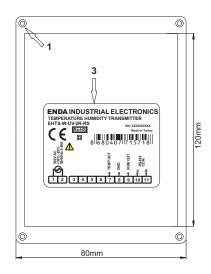
### **DIMENSIONS**





### Mounting:

- 1) Remove the cover by unscrewing the screws in the
- **2)** Mount the device from indicated points.
- **3)** Perform the electrical connections by paying attention to the wiring diagram.
- **4)** After the installation process, close the device and tighten the screws.





SİSEL MÜHENDİSLİK ELEKTRONİK SAN. VE TİC. A.Ş. Şerifali Mah. Barbaros Cad. No:18 Y.Duduillu 34775 ÖMRANIYERİSTANBUL-TURKEY
Tel:+90 216 499 46 64 Pbx. Fax:+90 216 365 74 01 url:www.enda.com.fr

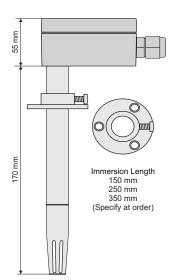
# **WALL-MOUNTED**

193 mm

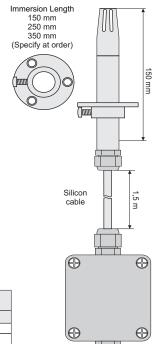
55 mm

# 80 mm

# **DUCT TYPE**



# CABLED TYPE



# TECHNICAL SPECIFICATIONS ENVIRONMENTAL CONDITIONS Ambient/storage temperature | 0 ... +50°C/-25 ... 70°C (without icing) Relative humidity | Relative humidity 80% for temperatures up to 31°C decreasing linearly to 50% relative humidity at 40°C. Rated pollution degree | IP65 according to EN 60529 Height | Max. 2000m

Do not use the device in	locations su	bject to corro	sive and fl	ammable g	ases.				
ELECTRICAL CHARACTERISTICS									
Supply	Ear 11\/ 00	250\/ AC/DC	For IV/ 0	20V/DC 7	241/ 4				

Supply	For UV, 90250V AC/DC . For LV, 930V DC, 724V AC	
Power Consumption	Max. 5.4VA	
Wiring	2.5 and 1.75 mm² screw-terminal connections	
Scale	Temperature: -40.0 +125.0°C (-40.0 +257.0°F) , Humidity: 0-100 % RH.	
Sensitivity	0.1°C / RH or 1°C / RH can be selected.	
	±2 % RH (for 20 ~ 80 % RH) 14bit,	
	±4 % RH (for 0 ~ 100 % RH) 14bit,	
Accuracy	±0.3 °C (for 20 ~ 40 °C) 14bit,	
	±1 °C (for -40 ~ 125 °C) 14bit,	
	63% Humidity variation for 7 seconds (with 1m/sec airflow at 25°C).	
Response Time	63% Temperature variation for 5 seconds (with 1m/sec airflow at 25°C).	
Time Accuracy	±%1	
EMC	EN 61326-1: 2013	
Safety Requirements	EN 61010-1: 2010 (Pollution degree 2, overvoltage category II)	

	0011015	
		0 ~ 20 mA DC or 0 ~ 10V DC selectable via jumpers. (See. Connection diagram)
1	Output	Load resistance for current outputs up to 500 ohms.
	Humidity Analogue Output	$0\sim20$ mA DC or $0\sim10$ V DC selectable via jumpers. (See. Connection diagram) Load resistance for current outputs up to 500 ohms.

HOUSING			
Housing type	Wall-mounted.		
Dimensions	L120xW80xH55mm		
Weight	Approx. 190g (after packing)		
Enclosure material	Self extinguishing plastics.		

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

## MODBUS ADDRESS MAP

### **INPUT REGISTERS**

	Input Register Adresses Data		Data Content		Read / Write
Decimal	Hex	Туре		Name	permission
0000d	0x0000	word	Measured temperature value (°C / °F)	R R	Read Only
0001d	0x0001	word	Measured humidity value (%RH)	R R	Read Only

<sup>\*</sup> Input Register parameters from which integer type is defined as a signed integer and these parameters are associated with decimal portion. ("14.0" parameter value is read as "140").

### **HOLDING REGISTERS**

110251110 112010 12110						
Adresses		Data Type	Data Content	Default Parameter	Parameter Name	Read / Write permission
Decimal	Hex	. ypc				
0000d	0x0000	word	Slave Modbus device address (Can be adjusted between 1 - 247)	1	Adr S	Write / Read
0001d	0x0001	word	Modbus communication speed (Bauthrate,1: 1200, 2: 2400, 3: 4800, 4: 9600, 5:19200)	9600	6Rud	Write / Read

If the device's address and/or baudrate information forgotten, the parameters must be returned to their initial values. Since there is no key on the device, the device must be delivered to the authorized person. Therefor, you should note the values you changed.

