



Read this document carefully before using this device. The guarantee will be expired by damaging of the device 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 EHTC7425A HUMIDITY AND TEMPERATURE CONTROLLER

Thank you for choosing ENDA EHTC7425A Humidity and Temperature Controller

- 72 x 72mm sized
- Dual 4 digits display
- 0/4-20mA, 0-10V, 1-5V analog or digital input (Specify at Order)
- Heating or cooling control selection
- PID, On-Off Temperature control selection
- PID Auto-calculation (SELF TUNE)
- Humidification or drying control selection
- Internal supply output for sensor
- Timer control for fan relay output
- 2 Relay outputs with time setting for incubation operations
- Adjustable buzzer alarm feature for measurement values
- CE marked according to European Norms.



Order Code : EHTC7425A - - - - 				
1 - Input	2 - Supply Voltage	3 - ModBus	4 - SSR	
AS.....Analog Input DS.....Digital Input	230.....230V AC 110.....110V AC SM.....10...30V DC 8...24V AC	Blank.....N/A RSI.....ModBus (Specify at Order).	Blank.....N/A SSR.....ModBus (Applies to the heat output).	
Sensor must be ordered separately.		Please see page 6 for Modbus Connection Diagram.		



RoHs
Compliant

TECHNICAL SPECIFICATIONS

ENVIRONMENTAL CONDITIONS	
Ambient/stroge temperature	0 ... +50°C/-25 ... 70°C (Without icing)
Max. Relative humidity	80% Relative humidity for temperatures up to 31°C, decreasing linearly to 50% at 40°C.
Rated pollution degree	According to EN 60529 Front panel : IP65 , Rear panel : IP20
Height	Max. 2000m

! KEEP AWAY device from exposed to corrosive, volatile and flammable gases or liquids and DO NOT USE the device in similar hazardous locations.

ELECTRICAL CHARACTERISTICS	
Supply	230V AC 110V AC ±10%, 50/60Hz or 10...30V DC / 8...24V AC
Power consumption	Max. 7VA
Wiring	2.5mm ² screw-terminal connections
Temperature input range	0~20mA / 0~10V can be selected for analog output sensors. Temperature range for digital output Enda Sensor is -40~125°C
Humidity input range	0~20mA / 0~10V can be selected for analog output sensors. Humidity range for digital output Enda Sensor is 0~100 RH
EMC	EN 61326-1: 2013
Safety requirements	EN 61010-1: 2010 (pollution degree 2, overvoltage category II)

INPUTS			
Input Type	Measurement Range	Measurement Accuracy	Input Resistance
AS	0-20mA 4-20mA	-40.0...125.0 °C 0....100 %RH	Approx. 10Ω
	1-5V 0-10V		Approx. 100kΩ
DS	EHTD-CB-100		-----

! When the device is in current measurement mode, the input impedance is 10Ω. Therefore voltage input should not be connected to the device while in current mode. Otherwise the device will deteriorate. If it is necessary to switch from the voltage measurement mode to the current measurement mode while the device is running, It must be removed and then changed to one of the input type current measurement modes.

OUTPUT	
Sensor Supply	15VDC , Max. 50mA
Life expectancy for relay	30.000.000 Switching for no-load operation; 300.000 switching for 10A resistive load at 250VAC.
SSR Output	Max. 12VDC 30mA.

HOUSING	
Housing type	Suitable for flush-panel mounting according to DIN 43 700.
Dimensions	W72xH72xD97mm
Weight	Approx. 350g (after packing)
Enclosure Material	Self extinguishing plastics

! Avoid any liquid contact when the device is switched on.
DO NOT clean the device with solvent (thinner, gasoline, acid etc.) and / or abrasive cleaning agents.

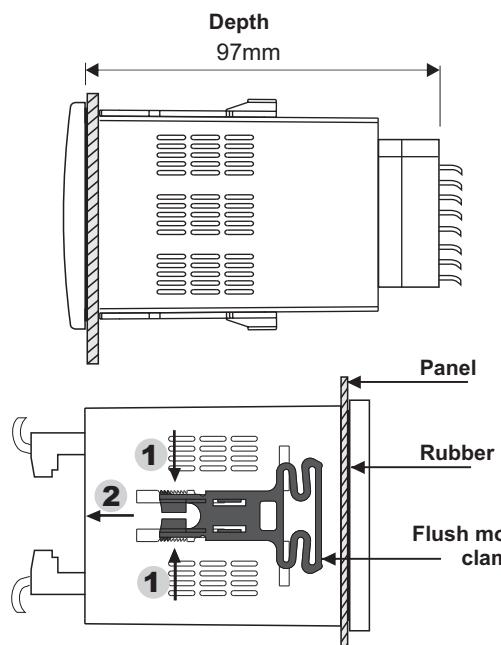


DIMENSIONS

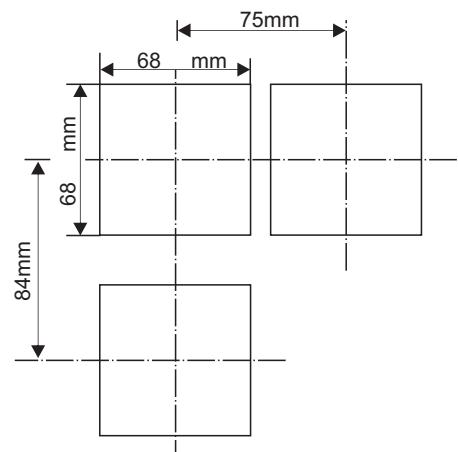


To removing the device from panel :

- While pressing both side of the device in direction **1** and push it in direction **2**



Panel cut-out

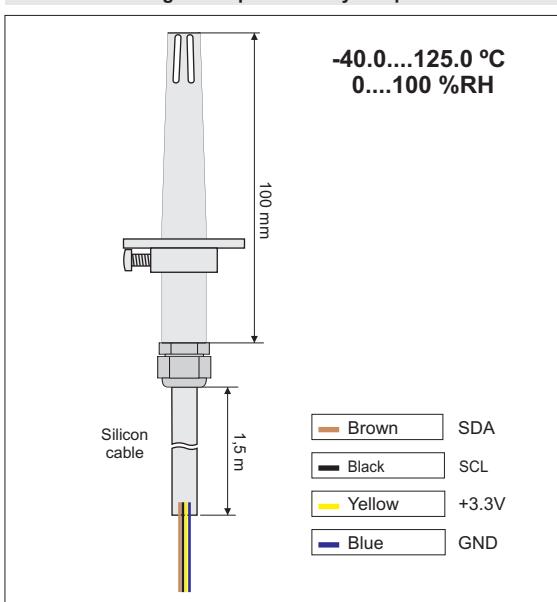


Note :

- 1) While panel mounting, additional distance is required for connection cables.
- 2) Panel thickness should be maximum 10mm.
- 3) If there is no 90mm free space at back side of the device, it would be difficult to remove it from the panel.

SENSOR (Must be ordered separately)

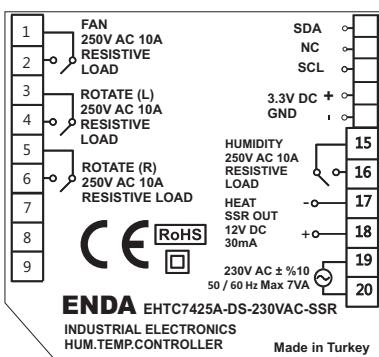
EHTD-CB-100 Digital Output Humidity Temperature Sensor



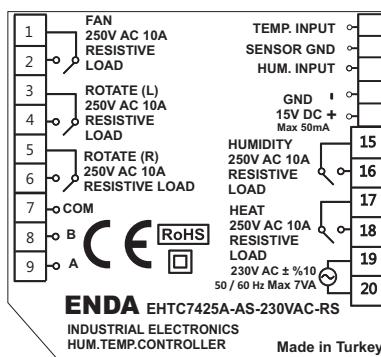
Sensor	Measuring Range	Device to be used
EHTD-CB-100	-40.0....125.0 °C 0....100 %RH	EHTC7425A-DS-XX
ESHT-102-XX	-40.0....60.0 °C 0....100 %RH	
ESHT-102-W-XX ESHT-102-CB-XX ESHT-102-DC-XX		
EHTS-W-UV-XX EHTS-W-LV-XX EHTS-CB-UV-XX EHTS-CB-LV-XX EHTS-DC-UV-XX EHTS-DC-LV-XX		
EHTC-W-UV-XX EHTC-W-LV-XX EHTC-CB-UV-XX EHTC-CB-LV-XX EHTC-DC-UV-XX EHTC-DC-LV-XX	-40.0....125.0 °C 0....100 %RH	EHTC7425A-AS-XX

EHTD-CB-100 (Used with EHTC7425A-DS-XX)

INSTALLATION

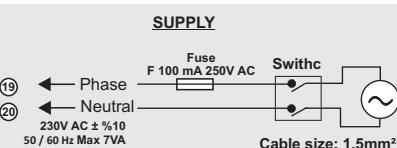


8 6 8 0 4 0 7 7 2 6 1 3 4



8 6 8 0 4 0 7 7 2 2 6 1 7

NOTE :



Fuse should be connected.



Equipment is protected throughout by DOUBLE INSULATION

Note :

- 1) Mains supply cords shall meet the requirements of IEC 60227 or IEC 60245.
- 2) In accordance with the safety regulations, the power supply switch shall bring the identification of the relevant instrument and it should be easily accessible by the operator.



ENDA EHTC725A is intended for installation in control panels. Make sure that the device is used only for intended purpose. The shielding must be grounded on the instrument side. During an installation, all of then cables that are connected to the device must be free of energy. The device must be protected against inadmissible humidity, vibrations, severe soiling. Make sure that the operation temperature is not exceeded. All input and output lines that are not connected to the supply network must be laid out as shielded and twisted cables. These cables should not be close to the power cables or components. The installation and electrical connections must be carried on by a qualified staff and must be according to the relevant locally applicable regulations.

FRONT PANEL COMMANDS & USAGE

Indicator(s) LEDs illuminates if ;

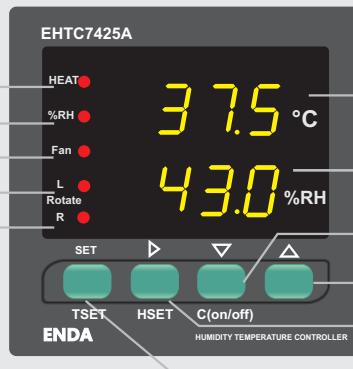
Heater relay is activated

Humidity relay is activated

Fan relay is activated

Left relay (rotation)is activated

Right relay (rotation)is activated



In "Running Mode", indicates the measured temperature value.
In "Programming Mode", indicates the parameter name.

In "Running Mode", indicates the measured relative humidity value.
In "Programming Mode", indicates the parameter value or unit.

In "Running Mode", switches off the control outputs.
In "Programming Mode", decrease the value or changes the parameters.

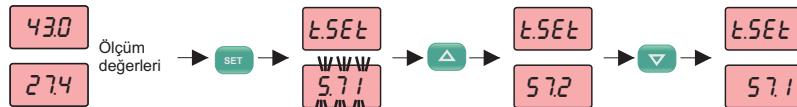
In "Running Mode", switches off the buzzer.

In "Programming Mode", increase the value or changes the parameters.

In "Running Mode", changes the humidity set value.

In "Running Mode", changes the temperature set value.
In "Programming Mode", indicates the parameter value.

Displaying and Changing Temperature Set Values



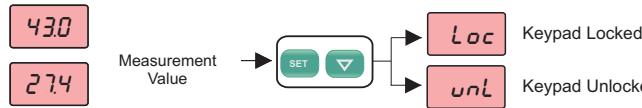
During "Running Mode", if **SET** key is preset, temperature setpoint value flashes for 3 seconds. While flashing, by pressing **△** and **▽** keys, temperature value can be changed. If no key is pressed for 3 seconds or if one of the set keys is pressed again, adjusted set value is saved and the "Running Mode" is entered.

Displaying and Changing Humidity Set Values



During "Running Mode", if **▶** key is preset, humidity setpoint value flashes for 3 seconds. While flashing, by pressing **△** and **▽** keys, humidity set value can be changed. If no key is pressed for 3 seconds or if one of the set keys is pressed again, adjusted set value is saved and the "Running Mode" is entered.

Locking & Unlocking Keypad



During "Running Mode", if **SET** and **▽** keys are pressed together for 2 seconds, **Loc** message is displayed and the keypad locked. While keypad is locked, if **SET** and **▽** keys are pressed together for 2 seconds, **unL** message is displayed and the keypad unlocked and "Running Mode" is entered. While keypad is locked, if one of the key is pressed, **Loc** message is displayed. During keypad locked, temperature and humidity set values can be displayed but can not be changed.

Activating / Deactivating Control Outputs

During "Running Mode", if **▽** key is pressed for 2 seconds, **Ld,5** message displayed and the control outputs become deactivated and device works as an indicator. While control outputs deactivated, by pressing **▽** key for 2 seconds, **Lenb** message displayed and device continues to control functions.

Stopping Buzzer Alarm

When an alarm condition occurs, an audible alarm is triggered. By pressing, **△** key, buzzer alarm can be turned off.

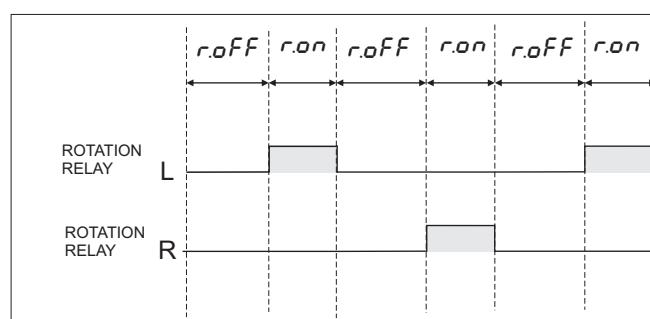
Default Settings

Powered on device by pressing **▽** key, **dPAr** message appears on display and device reset to default settings.

Displaying Revision Number

If **SET**, **△**, **▽** keys are pressed together in "Running Mode", revision number **r.00** ! appears on display.

ROTATION OUTPUT GRAPHICS



(*) Rotation process runs sequentially for left and right directions,
Rotation process runs consecutively as opened until open duration
time(r.ON)and closed until close duration time (r.OFF)

Error - Warning - Alarm Definitions

-  Sensor Failure. Check the sensor connection. The audible warning is activated. Temperature and humidification outputs are disabled.
-  Temperature Alarm. Audible warning is activated. Temperature output is disabled.
-  Humidification Alarm. Audible warning is activated. Humidification output is disabled.
-  Self tune menu has been entered.
-  During self tune menu, indicates that the measured temperature value is greater than 60% of the set value.
-  Self tune process is running.
-  Self tune process has been successfully completed.

SELF TUNE OPERATION

 In order to start the Self-tune operation, *t.P id* parameter must be set to YES .

Running Mode

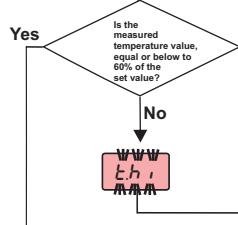
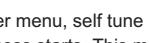


Self Tune Menu



If the  key is pressed for 7 seconds while in user menu, self tune menu is entered. Then  key is pressed, if the conditions are suitable, self tune process starts. This menu can be exited by pressing any key.

User Menu



If the measured temperature value is greater than 60% of the set value, self tune operation can not be started.

PID parameters are being calculated.

If  key is pressed, self tune menu exits and "Running Mode" is entered. PID parameters will not be changed.

PID parameters are calculated. Temperature control has begun.

If  key is pressed, self tune menu exits and "Running Mode" is entered. Temperature control will be performed by according to the new PID parameters.



PROGRAMMING THE DEVICE (1/2)

Device has two menus as user and hidden menu. User menu is the frequently used parameters and the hidden menu is where all parameters are found. Menus can be transferred between parameters. If **SET** and **DOWN** keys are pressed together for 2 seconds in the hidden menu, the parameter is transferred to the user menu. Up to 10 parameters can be transferred to the user menu in this way. If **SET** and **UP** keys are pressed together for 2 seconds in the user menu, parameter is removed from user menu.

User Menu

If **UP** and **DOWN** keys are pressed together for 2 seconds, user menu is entered and first parameter in the user menu is displayed. If no operation is performed for 7 seconds or when **UP** **DOWN** keys are pressed together, "Running Mode" is entered.

Hidden Menu

If **DOWN** key is pressed for 7 seconds while in user menu, hidden menu is entered and then the first parameter in the hidden menu is displayed. All parameters in the PARAMETER LIST on page 5 can be accessed from this menu. The parameter access and save functions are as in the user menu. If no operation is performed for 7 seconds, or if the **UP** **DOWN** keys are pressed together, "Running Mode" is entered.

Programming Mode

dPnt Decimal point display

Snd Buzzer (**no**:Buzzer not active. **YES**: Buzzer active)

t.inP Temperature, Humidity output type
(**0-20**:0~20mA, **4-20**:4~20mA, **0-10**:0~10V, **1-5**:1~5V)

** **t.UPL** Temperature set value Upper Limit

** **t.LoL** Temperature set value Lower Limit

t.HYS Temperature hysteresis

t.oFF Temperature offset value

t.cnt Temperature control.
L o : Output is active when the temperature is below set value (cooling control),
H i : The output is active when the temperature is above the set value (heating control).

t.Pon Temperature output delay time after power-up

t.P_id PID temperature control selection (**no**:On-Off control **YES**: PID control)

t.Pb Proportional band for PID control.

t.t_i Integral time for PID control

t.t_d Derivation time for PID control.

t.PcP Periodic time for PID control

** **h.inP** Temperature, Humidity input type.
0-20:0~20mA, **4-20**:4~20mA, **0-10**:0~10V, **1-5**:1~5V

** **h.UPL** Humidity set value Upper Limit.

** **h.LoL** Humidity set value Lower Limit

h.HYS Humidity hysteresis

h.oFF Humidity offset value

h.cnt Humidification control.
L o:Output is active when the humidity is below set value (cooling control),
H i : The output is active when the humidification is above the set value (heating control).

h.Pon Humidification output delay time after power-up

F.Cnt Fan Control
no: Fan not active, **YES**: Fan active

LPI7

UniT Temperature unit

AdrS Slave device address selection.

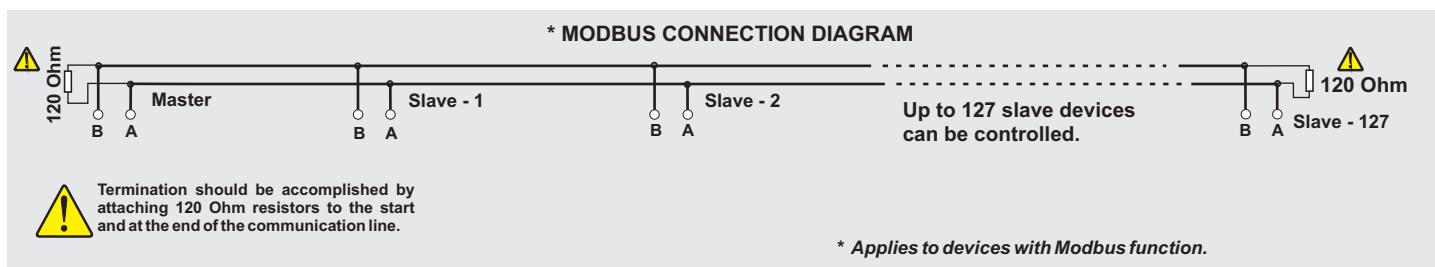
bRud Communication speed (baud rate) selection

Note: When the **LPI7** menu is opened, the parameters of the **LPI7** menu also appear.

** The marked parameters are valid only for the humidity temperature sensor model with analogue input.

F.on	Fan ON time duration.
F.off	Fan OFF time duration.
r.Cnt	Rotating Control (<i>no</i> : Rotating not active, <i>YES</i> : Rotating active)
r.on	Rotating ON time duration
r.off	Rotating OFF time duration.
RPopn	Alarm message display delay time after power up
ReltP	Temperature alarm configuration (<i>RbS</i> : Absolute alarm, <i>rEF</i> : Relative alarm) <i>RbS</i> : Alarm values are <i>ReltL</i> and <i>ReltH</i> , <i>rEF</i> : Alarm values are <i>ReltL</i> = <i>LSET</i> - <i>ReltL</i> and <i>ReltH</i> = <i>LSET</i> + <i>ReltH</i> ,
ReltH ,	Temperature upper level alarm (If <i>ReltP</i> is changed, this parameter must be re-programmed).
ReltL	Temperature lower level alarm (If <i>ReltP</i> is changed, this parameter must be re-programmed)
ReltHS	Temperature alarm hysteresis
RhetP	Humidity alarm configuration (<i>RbS</i> : Absolute alarm, <i>rEF</i> : Relative alarm) <i>RbS</i> : Alarm values are <i>RhetL</i> and <i>RhetH</i> , <i>rEF</i> : Alarm values are <i>RhetL</i> = <i>HSET</i> - <i>RhetL</i> and <i>RhetH</i> = <i>HSET</i> + <i>RhetH</i> ,
RhetH ,	Humidity upper level alarm. (If <i>RhetP</i> is changed, this parameter must be re-programmed)
RhetL	Humidity lower level alarm.(If <i>RhetP</i> is changed, this parameter must be re-programmed)
RhetHS	Humidity alarm hysteresis.
FtSP	Fan alarm setpoint value.
FHYS	Fan alarm hysteresis.

MODBUS CONNECTION



PARAMETER LIST					
CONFIGURATION PARAMETERS			Minimum	Maximum	Unit Type
<i>T.inP</i>	Temperature unit OFF=°C, ON=°F		°C	°F	
<i>dPnt</i>	Decimal indication OFF=no, ON=YES		no	YES	
<i>Snd</i>	Buzzer OFF=no, ON=YES		no	YES	
TEMPERATURE CONTROL PARAMETERS					
<i>T.inP</i>	Temperature, input type (0-20:0~20mA, 4-20: 4~20mA, 0- 10:0~10V, 1-5:1~5V)		0-20	1-5	mA / V
<i>T.uPL</i>	Temperature set value Upper Limit		T.uLoL	125	°C / °F
<i>T.lLoL</i>	Temperature set value Lower Limit		-40	T.uPL	°C / °F
<i>T.HYS</i>	Temperature hysteresis		1	20	°C / °F
<i>T.oFF</i>	Temperature offset value		-20	20	°C / °F
<i>T.cnt</i>	Temperature control. L o:Output is active when the temperature is below set value (cooling control), H , : The output is active when the temperature is above the set value (heating control).		Lo	H ,	
<i>T.Pon</i>	Temperature output delay time after power-up		00:00	99:00	min:sec
<i>T.P_id</i>	PID temperature control selection (no:On-Off control YES: PID control)		no	YES	
<i>T.Pb</i>	Proportional band for PID control		0	100	%
<i>T.t_i</i>	Integral time for PID control		00:00	99:00	min:sec
<i>T.t_d</i>	Derivation time for PID control.		00:00	99:00	min:sec
<i>T.PcP</i>	Periodic time for PID control		00:00	02:00	min:sec
HUMIDIFICATION CONTROL PARAMETERS					
<i>h.inP</i>	Humidity input type (0-20:0~20mA, 4-20: 4~20mA, 0- 10:0~10V, 1-5:1~5V)		0-20	1-5	mA / V
<i>h.uPL</i>	Humidity set value Upper Limit		hLoL	100	%RH
<i>h.lLoL</i>	Humidity set value Lower Limit		0	h.uPL	%RH
<i>h.HYS</i>	Humidity hysteresis		1	20	%RH
<i>h.oFF</i>	Humidity offset value		-20	20	%RH
<i>h.cnt</i>	Humidification control. L o:Output is active when the humidity is below set value (cooling control), H , : The output is active when the humidification is above the set value (heating control).		Lo	H ,	
<i>h.Pon</i>	Humidification output delay time after power-up		00:00	99:00	min:sec
FAN CONTROL PARAMETERS					
<i>F.Cnt</i>	Fan Control (no: Fan not active, YES: Fan active)		no	YES	
<i>F.on</i>	Fan ON time duration.		00:00	99:00	hr:min
<i>F.oFF</i>	Fan OFF time duration.		00:00	99:00	hr:min
<i>F.ESP</i>	Fan alarm setpoint value.		00:00	99:00	hr:min
<i>F.HYS</i>	Fan alarm hysteresis.		00:00	99:00	hr:min
RIGHT - LEFT Rotating CONTROL PARAMETERS					
<i>r.Cnt</i>	Rotating Control (no: Rotating not active, YES: Rotating active)		no	YES	
<i>r.on</i>	Rotating ON time duration.		00:00	99:00	min:sec
<i>r.oFF</i>	Rotating OFF time duration..		00:00	99:00	hr:min
ALARM PARAMETERS					
<i>R.Pon</i>	Alarm message display delay time after power up		00:00	99:00	min:sec
<i>R.tP</i>	Temperature alarm configuration (RbS : Absolute alarm, rEF : Relative alarm) RbS: Alarm values are RLo and RH, rEF: Alarm values are RLo = LSET - RLo and RH = LSET + RH,		RbS	rEF	
<i>RtH ,</i>	Temperature upper level alarm (If R.tP is changed, this parameter must be re-programmed).		RLo	125	°C / °F
<i>RtLo</i>	Temperature lower level alarm (If R.tP is changed, this parameter must be re-programmed)		-40	RH ,	°C / °F
<i>RtHS</i>	Temperature alarm hysteresis		1	20	°C / °F
<i>R.htP</i>	Humidity alarm configuration (RbS : Absolute alarm, rEF : Relative alarm) RbS: Alarm values are RhLo and RhH, rEF: Alarm values are RhLo = LSET - RhLo and RhH = LSET + RhH ,		RbS	rEF	
<i>RhH ,</i>	Humidity upper level alarm. (If R.htP is changed, this parameter must be re-programmed)		RhLo	100	%RH
<i>RhLo</i>	Humidity lower level alarm.(If R.htP is changed, this parameter must be re-programmed)		0	RhH ,	%RH
<i>RhHS</i>	Humidity alarm hysteresis.		1	20	%RH
MODBUS COMMUNICATION PARAMETERS					
<i>RdrS</i>	Slave device address selection		1	247	
<i>bRud</i>	Communication speed (baud rate) selection		oFF	19.20	Bps
					9600

ENDA EHTC7425A HUMIDITY AND TEMPERATURE CONTROLLER MODBUS ADDRESS MAP
1.1 HOLDING REGISTERS

Holding Register Addresses	Data Type	Data Content	Parameter Name	Read / Write Permission
Decimal	Hex			
0000d	0x0000	word Temperature set value	<i>tSET</i>	R / W
0001d	0x0001	word Temperature set value Upper Limit	<i>tUPL</i>	R / W
0002d	0x0002	word Temperature set value Lower Limit	<i>tLoL</i>	R / W
0003d	0x0003	word Temperature upper level alarm	<i>REH</i>	R / W
0004d	0x0004	word Temperature lower level alarm	<i>REL</i>	R / W
0005d	0x0005	word Temperature hysteresis	<i>tHYS</i>	R / W
0006d	0x0006	word Temperature offset value	<i>tOFF</i>	R / W
0007d	0x0007	word Temperature alarm hysteresis	<i>tALHYS</i>	R / W
0008d	0x0008	word Humidity set value	<i>hSET</i>	R / W
0009d	0x0009	word Humidity set value Upper Limit	<i>hUPL</i>	R / W
0010d	0x000A	word Humidity set value Lower Limit	<i>hLoL</i>	R / W
0011d	0x000B	word Humidity hysteresis	<i>hHYS</i>	R / W
0012d	0x000C	word Humidity offset value	<i>hOFF</i>	R / W
0013d	0x000D	word Humidity upper level alarm	<i>RHH</i>	R / W
0014d	0x000E	word Humidity lower level alarm	<i>RHL</i>	R / W
0015d	0x000F	word Humidity alarm hysteresis	<i>RHHS</i>	R / W
0016d	0x0010	word Temperature output delay time after power-up	<i>tPon</i>	R / W
0017d	0x0011	word Humidity output delay time after power-up	<i>hPon</i>	R / W
0018d	0x0012	word Alarm message display delay time after power-up	<i>RPon</i>	R / W
0019d	0x0013	word Fan ON time duration.	<i>Fon</i>	R / W
0020d	0x0014	word Fan OFF time duration.	<i>Foff</i>	R / W
0021d	0x0015	word Rotating ON time duration.	<i>r.on</i>	R / W
0022d	0x0016	word Rotating OFF time duration..	<i>r.off</i>	R / W
0023d	0x0017	word Integral time for PID control	<i>tt.i</i>	R / W
0024d	0x0018	word Derivation time for PID control.	<i>tt.d</i>	R / W
0025d	0x0019	word Temperature input type (0:0 - 20, 1:4 - 20, 2:0 - 10, 3: 1-5)	<i>t.inP</i>	R / W
0026d	0x001A	word Humidity input type (0:0 - 20, 1:4 - 20, 2:0 - 10, 3: 1-5)	<i>h.inP</i>	R / W
0027d	0x001B	word Proportional band for PID control	<i>tPb</i>	R / W
0028d	0x001C	word Periodic time for PID control	<i>tPcP</i>	R / W
0029d	0x001D	word Address selection for slave device.	<i>AdrS</i>	R / W
0030d	0x001E	word Baud Rate	<i>bRud</i>	R / W
0031d	0x001F	word Fan alarm setpoint value.	<i>FtSP</i>	R / W
0032d	0x002A	word Fan alarm hysteresis.	<i>FHYS</i>	R / W

1.2 INPUT REGISTERS

Input Register Addresses	Data Type	Data Content	Parameter Name	Read /Write Permisson
Decimal	Hex			
0000d	0x0000	word Measured temperature value (°C / °F)	--	R
0001d	0x0001	word Measured humidity value (%RH)	--	R

* Holding and Input Register parameters of type integer, those "signed integer" is defined as the decimal part of and associated with these parameters. (So, "14.0" is a parameter value of "140" will be read in). Relevant parameters for a period of "mm:ss" type ones in seconds, "hh:mm" while those species defined in minutes.

1.3 COILS

Coil Addresses	Data Type	Data Content	Parameter Name	Read /Write Permisson
Decimal	Hex			
00d	0x00	bit Temperature unit OFF=0, ON=1	<i>Un.t</i>	R / W
01d	0x01	bit Decimal indication OFF=0, ON=1	<i>dPnt</i>	R / W
02d	0x02	bit Buzzer OFF=0, ON=1	<i>Snd</i>	R / W
03d	0x03	bit Temperature control OFF = 0, ON = Relative alarm H ,	<i>tcnt</i>	R / W
04d	0x04	bit Humidity control OFF = 0, ON = Relative alarm H ,	<i>hcnt</i>	R / W
05d	0x05	bit Fan Control (0: Fan not active, 1: Fan active)	<i>Fcnt</i>	R / W
06d	0x06	bit Rotating Control (0: Rotating not active, 1: Rotating active)	<i>r.cnt</i>	R / W
07d	0x07	bit Temperature alarm configuration OFF = Rb5, ON = Relative alarm rEF	<i>RtEP</i>	R / W
08d	0x08	bit Humidity alarm configuration OFF = Rb5, ON = Relative alarm rEF	<i>RhEP</i>	R / W
09d	0x09	bit PID temperature control selection OFF = 1, ON = 0	<i>tP.id</i>	R / W

1.4 DISCRETE INPUTS

Discrete Inputs Addresses	Data Type	Data Content	Parameter Name	Read /Write Permisson
Decimal	Hex			
0000d	0x0000	bit Temperature relay output status (0=OFF; 1=ON)	--	R
0001d	0x0001	bit Humidification relay output status (0=OFF; 1=ON)	--	R
0002d	0x0002	bit Fan relay output status (0=OFF; 1=ON)	--	R
0003d	0x0003	bit Right Rotating relay output status (0=OFF; 1=ON)	--	R
0004d	0x0004	bit Left Rotating relay output status (0=OFF; 1=ON)	--	R