

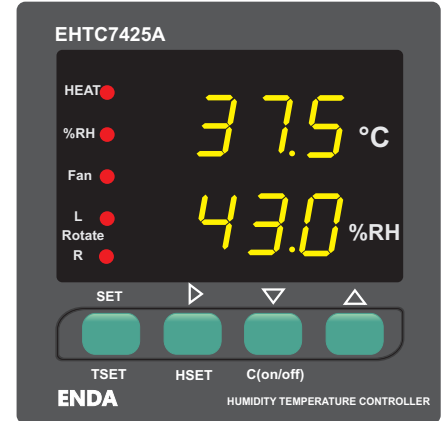


Read this document carefully before using this device. The guarantee will be expired by damaging of the device if you don't attend to the directions in the user manual. Also we don't accept any compensations for personal injury, material damage or capital disadvantages.

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 -

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|---|---|---|
| 1 - Input
AS.....Analog Input
DS.....Digital Input | 2 - Supply Voltage
230.....230V AC
SM.....9...30V DC
7...24V AC | 4 - ModBus
Blank.....N/A
RSI.....ModBus
(Specify at Order). |
|---|---|---|

Sensor must be ordered separately.



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

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

ELECTRICAL CHARACTERISTICS	
Supply	230V AC ±10%, 50/60Hz or 9...30V DC / 7...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	±%0,5 (Full scale)	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.

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

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



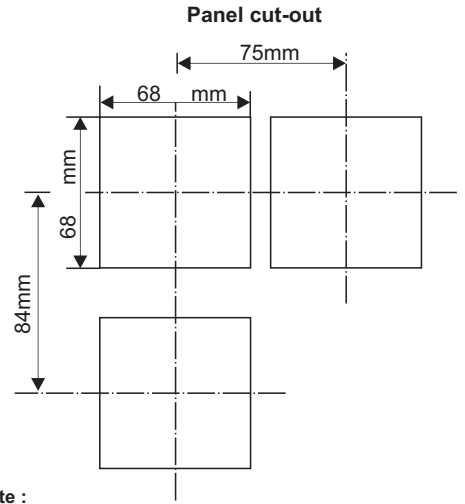
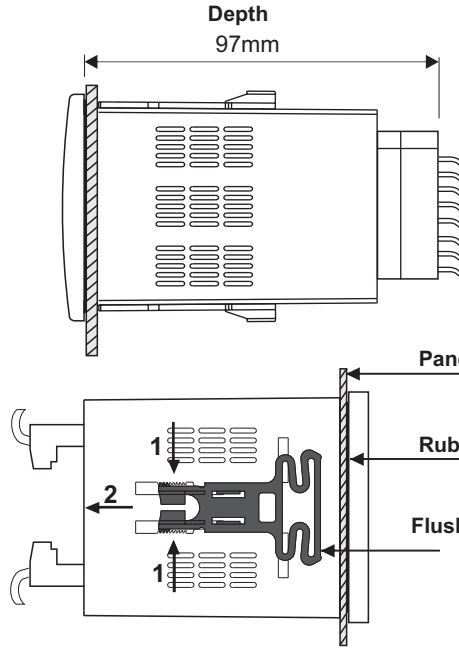
SİSEL MÜHENDİSLİK ELEKTRONİK SAN. VE TİC. A.Ş.
 Şerifali Mah. Barbaros Cad. No:18 Y.Dudullu 34775
 ÜMRANİYE/İSTANBUL
 Tel : +90 216 499 46 64 Pbx. Fax : +90 216 365 74 01
 url : www.enda.com.tr



DIMENSIONS



For removing the device from panel :
 - While pressing both side of the device in direction 1 and push it in direction 2

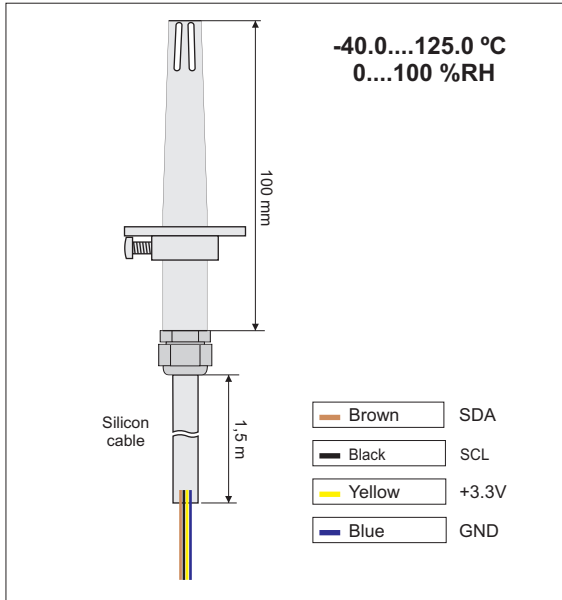


Note :

- 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)

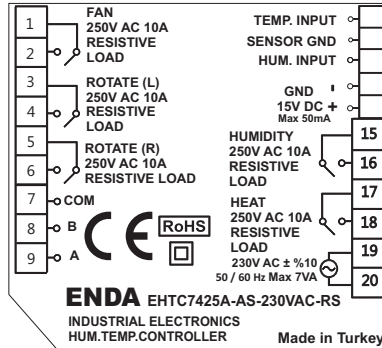
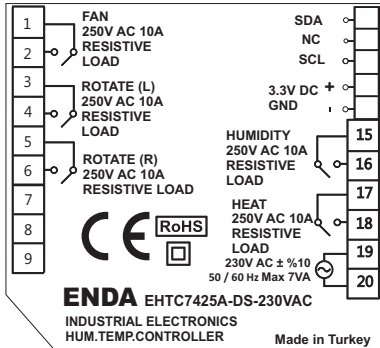
EHTD-CB-100 Digital Output Humidity Temperature Sensor



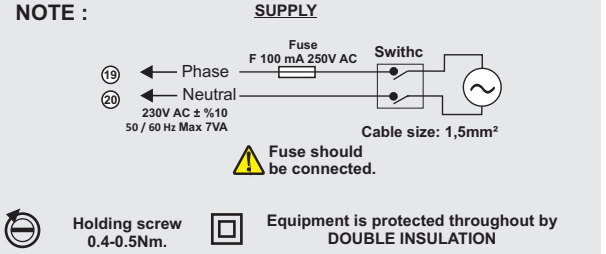
EHTD-CB-100 (Used with EHTC7425A-DS-XX)

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	EHTC7425A-AS-XX
ESHT-102-W-XX ESHT-102-CB-XX ESHT-102-DC-XX	-40.0...125.0 °C 0...100 %RH	
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		

INSTALLATION



NOTE :



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.

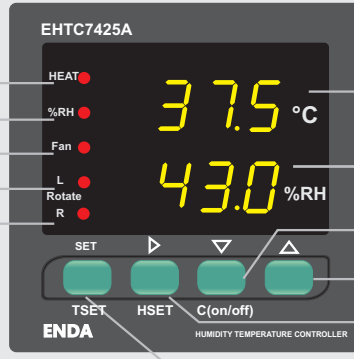


ENDA EHTC725A is intended for installation in control panels. Make sure that the device is used only for intended purpose. The shielding must be grounded on the instrument side. During an installation, all of then cables that are connected to the device must be free of energy. The device must be protected 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.

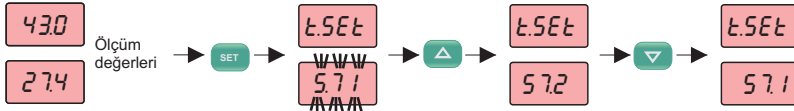
In "Running Mode", switches off the control outputs.
In "Programming Mode", decrease the value or changes the parameters.

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.

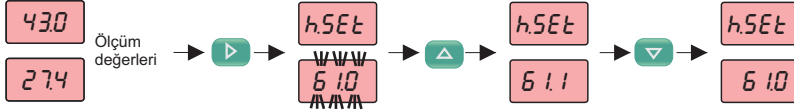
In "Running Mode", changes the temperature set value.
In "Programming Mode", indicates the parameter value.

Displaying and Changing Temperature Set Values



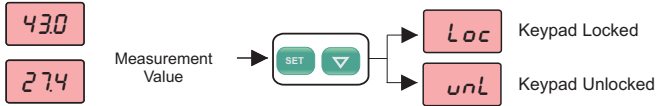
During "Running Mode", if **SET** key is preset, temperature setpoint value flashes for 3 seconds. While flashing, by pressing **▲** and **▼** keys, temperature value can be changed. If no key is pressed for 3 seconds or if one of the set keys is pressed again, adjusted set value is saved and the "Running 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, **Ed 15** message displayed and the control outputs become deactivated and device works as an indicator. While control outputs deactivated, by pressing **▼** key for 2 seconds, **CEnb** 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.

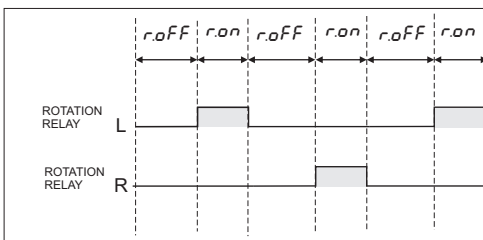
Default Settings

Powered on device by pressing **▼** key, **dPRr** 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.001** 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

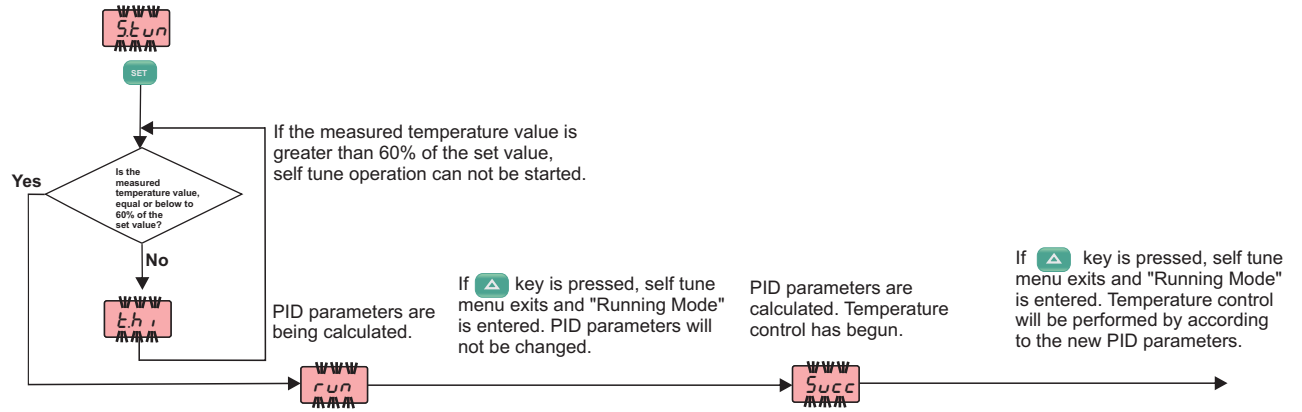
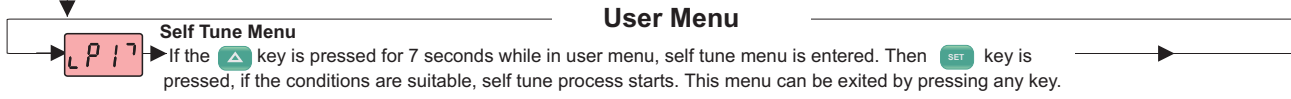
- SERR** Sensor Failure. Check the sensor connection. The audible warning is activated. Temperature and humidification outputs are disabled.
- TRLR** Temperature Alarm. Audible warning is activated. Temperature output is disabled.
- HLR** Humidification Alarm. Audible warning is activated. Humidification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

SELF TUNE OPERATION

Operating Mode



if you want Self-tune operation first set **LPid** parameter to **YES**.



PROGRAMMING THE DEVICE

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 **↓** 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 **↓** keys are pressed together for 2 seconds in the user menu, parameter is removed from user menu.

User Menu

If **↑** and **↓** 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 **↑** **↓** keys are pressed together, "Running Mode" is entered.

Hidden Menu Programming Mode















If **↓** 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 **↑** **↓** keys are pressed together, "Running Mode" is entered.

- LP17** →
- 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 offfset value
- t.cnt** Temperature control. *Lo*:Output is active when the temperature is below set value (cooling control), *Hi* : The output is active when the temperature is above the set value (heating control).
- t.Pon** Temperature output delay time after power-up
- t.Pid** PID temperature control selection (*no*:On-Off control *YES*: PID control)
- t.Pb** Proportional band for PID control.
- t.ti** Integral time for PID control
- t.td** 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 offfset value
- h.cnt** Humidification control. *Lo*:Output is active when the humidity is below set value (cooling control), *Hi* : 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)

- LP27** →
- Unit** Temperature unit
- AdRS** Slave device address selection.
- bAud** Communication speed (baud rate) selection

Note: When the **LP27** menu is opened, the parameters of the **LP17** 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.cnf	Rotating Control (no : Rotating not active, yes : Rotating active)
	r.on	Rotating ON time duration
	r.off	Rotating OFF time duration.
	RP.on	Alarm message display delay time after power up
	ReltP	Temperature alarm configuration (ABS : Absolute alarm, rel : Relative alarm) ABS : Alarm values are RelLo and RelH , rel : Alarm values are RelLo = $\pm SET - RelLo$ and RelH , = $\pm SET + RelH$,
	RelH	Temperature upper level alarm (If ReltP is changed, this parameter must be re-programmed).
	RelLo	Temperature lower level alarm (If ReltP is changed, this parameter must be re-programmed)
	RelHS	Temperature alarm hysteresis
	RhltP	Humidity alarm configuration (ABS : Absolute alarm, rel : Relative alarm) ABS : Alarm values are RhLo and RhH , rel : Alarm values are RhLo = $\pm SET - RhLo$ and RhH , = $\pm SET + RhH$,
	RhH	Humidity upper level alarm. (If RhltP is changed, this parameter must be re-programmed)
	RhLo	Humidity lower level alarm.(If RhltP is changed, this parameter must be re-programmed)
	RhHS	Humidity alarm hysteresis.

PARAMETER LIST					
CONFIGURATION PARAMETERS		Minimum	Maximum	Unit Type	Default
<i>Unit</i>	Temperature unit OFF= <i>°C</i> , ON= <i>°F</i>	<i>°C</i>	<i>°F</i>		<i>°C</i>
<i>dPnt</i>	Decimal indication OFF= <i>no</i> , ON= <i>YES</i>	<i>no</i>	<i>YES</i>		<i>no</i>
<i>Snd</i>	Buzzer OFF= <i>no</i> , ON= <i>YES</i>	<i>no</i>	<i>YES</i>		<i>no</i>
TEMPERATURE CONTROL PARAMETERS					
<i>t.inP</i>	Temperature, input type (<i>0-20</i> :0~20mA, <i>4-20</i> :4~20mA, <i>0-10</i> :0~10V, <i>1-5</i> :1~5V)	<i>0-20</i>	<i>1-5</i>	mA / V	<i>0-20</i>
<i>t.uPL</i>	Temperature set value Upper Limit	<i>t.LoL</i>	<i>125</i>	°C / °F	<i>60</i>
<i>t.LoL</i>	Temperature set value Lower Limit	<i>-40</i>	<i>t.uPL</i>	°C / °F	<i>-40</i>
<i>t.HYS</i>	Temperature hysteresis	<i>1</i>	<i>20</i>	°C / °F	<i>2</i>
<i>t.oFF</i>	Temperature offfset value	<i>-20</i>	<i>20</i>	°C / °F	<i>0</i>
<i>t.cnt</i>	Temperature control. <i>Lo</i> :Output is active when the temperature is below set value (cooling control), <i>Hi</i> : The output is active when the temperature is above the set value (heating control).	<i>Lo</i>	<i>Hi</i>		<i>Hi</i>
<i>t.Pon</i>	Temperature output delay time after power-up	<i>00:00</i>	<i>99:00</i>	dk:sn	<i>1:00</i>
<i>t.Pid</i>	PID temperature control selection (<i>no</i> :On-Off control <i>YES</i> : PID control)	<i>no</i>	<i>YES</i>		<i>no</i>
<i>t.Pb</i>	Proportional band for PID control	<i>0</i>	<i>100</i>	%	<i>14</i>
<i>t.ti</i>	Integral time for PID control	<i>00:00</i>	<i>99:00</i>	dk:sn	<i>1:56</i>
<i>t.td</i>	Derivation time for PID control.	<i>00:00</i>	<i>99:00</i>	dk:sn	<i>0:35</i>
<i>t.PcP</i>	Periodic time for PID control	<i>00:00</i>	<i>02:00</i>	dk:sn	<i>0:20</i>
HUMIDIFICATION CONTROL PARAMETERS					
<i>h.inP</i>	Humidity input type (<i>0-20</i> :0~20mA, <i>4-20</i> :4~20mA, <i>0-10</i> :0~10V, <i>1-5</i> :1~5V)	<i>0-20</i>	<i>1-5</i>	mA / V	<i>0-20</i>
<i>h.uPL</i>	Humidity set value Upper Limit	<i>h.LoL</i>	<i>100</i>	%RH	<i>100</i>
<i>h.LoL</i>	Humidity set value Lower Limit	<i>0</i>	<i>h.uPL</i>	%RH	<i>0</i>
<i>h.HYS</i>	Humidity hysteresis	<i>1</i>	<i>20</i>	%RH	<i>2</i>
<i>h.oFF</i>	Humidity offfset value	<i>-20</i>	<i>20</i>	%RH	<i>0</i>
<i>h.cnt</i>	Humidification control. <i>Lo</i> :Output is active when the humidity is below set value (cooling control), <i>Hi</i> : The output is active when the humidification is above the set value (heating control).	<i>Lo</i>	<i>Hi</i>		<i>Hi</i>
<i>h.Pon</i>	Humidification output delay time after power-up	<i>00:00</i>	<i>99:00</i>	dk:sn	<i>1:00</i>
FAN CONTROL PARAMETERS					
<i>F.cnt</i>	Fan Control (<i>no</i> : Fan not active, <i>YES</i> : Fan active)	<i>no</i>	<i>YES</i>		<i>YES</i>
<i>F.on</i>	Fan ON time duration.	<i>00:00</i>	<i>99:00</i>	sa:dk	<i>1:00</i>
<i>F.oFF</i>	Fan OFF time duration.	<i>00:00</i>	<i>99:00</i>	sa:dk	<i>1:00</i>
RIGHT - LEFT Rotating CONTROL PARAMETERS					
<i>r.cnt</i>	Rotating Control (<i>no</i> : Rotating not active, <i>YES</i> : Rotating active)	<i>no</i>	<i>YES</i>		<i>YES</i>
<i>r.on</i>	Rotating ON time duration.	<i>00:00</i>	<i>99:00</i>	dk:sn	<i>1:00</i>
<i>r.oFF</i>	Rotating OFF time duration..	<i>00:00</i>	<i>99:00</i>	sa:dk	<i>1:00</i>
ALARM PARAMETERS					
<i>APon</i>	Alarm message display delay time after power up	<i>00:00</i>	<i>99:00</i>	dk:sn	<i>1:00</i>
<i>AltP</i>	Temperature alarm configuration (<i>AbS</i> : Absolute alarm, <i>rEF</i> : Relative alarm) <i>AbS</i> : Alarm values are <i>RelLo</i> and <i>RelHi</i> , <i>rEF</i> : Alarm values are <i>RelLo</i> = <i>tSEt</i> - <i>RelLo</i> and <i>RelHi</i> = <i>tSEt</i> + <i>RelHi</i> ,	<i>AbS</i>	<i>rEF</i>		<i>AbS</i>
<i>RelHi</i>	Temperature upper level alarm (If <i>AltP</i> is changed, this parameter must be re-programmed).	<i>RelLo</i>	<i>125</i>	°C / °F	<i>125</i>
<i>RelLo</i>	Temperature lower level alarm (If <i>AltP</i> is changed, this parameter must be re-programmed)	<i>-40</i>	<i>RelHi</i>	°C / °F	<i>-40</i>
<i>RelHS</i>	Temperature alarm hysteresis	<i>1</i>	<i>20</i>	°C / °F	<i>2</i>
<i>AhP</i>	Humidity alarm configuration (<i>AbS</i> : Absolute alarm, <i>rEF</i> : Relative alarm) <i>AbS</i> : Alarm values are <i>AhLo</i> and <i>AhHi</i> , <i>rEF</i> : Alarm values are <i>AhLo</i> = <i>tSEt</i> - <i>AhLo</i> and <i>AhHi</i> = <i>tSEt</i> + <i>AhHi</i> ,	<i>AbS</i>	<i>rEF</i>		<i>AbS</i>
<i>AhHi</i>	Humidity upper level alarm. (If <i>AhP</i> is changed, this parameter must be re-programmed)	<i>AhLo</i>	<i>100</i>	%RH	<i>100</i>
<i>AhLo</i>	Humidity lower level alarm.(If <i>AhP</i> is changed, this parameter must be re-programmed)	<i>0</i>	<i>AhHi</i>	%RH	<i>0</i>
<i>AhHS</i>	Humidity alarm hysteresis.	<i>1</i>	<i>20</i>	%RH	<i>2</i>
MODBUS COMMUNICATION PARAMETERS					
<i>AdrS</i>	Slave device address selection	<i>1</i>	<i>247</i>		<i>1</i>
<i>baud</i>	Communication speed (baud rate) selection	<i>oFF</i>	<i>1920</i>	Bps	<i>9600</i>

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	tSEt	R / W
0001d	0x0001	word	Temperature set value Upper Limit	t.uPL	R / W
0002d	0x0002	word	Temperature set value Lower Limit	t.LoL	R / W
0003d	0x0003	word	Temperature upper level alarm	RtH _i	R / W
0004d	0x0004	word	Temperature lower level alarm	RtLo	R / W
0005d	0x0005	word	Temperature hysteresis	t.HYS	R / W
0006d	0x0006	word	Temperature offfset value	t.oFF	R / W
0007d	0x0007	word	Temperature alarm hysteresis	RtHS	R / W
0008d	0x0008	word	Humidity set value	hSEt	R / W
0009d	0x0009	word	Humidity set value Upper Limit	h.uPL	R / W
0010d	0x000A	word	Humidity set value Lower Limit	h.LoL	R / W
0011d	0x000B	word	Humidity hysteresis	h.HYS	R / W
0012d	0x000C	word	Humidity offfset value	h.oFF	R / W
0013d	0x000D	word	Humidity upper level alarm	RhH _i	R / W
0014d	0x000E	word	Humidity lower level alarm	RhLo	R / W
0015d	0x000F	word	Humidity alarm hysteresis	RhHS	R / W
0016d	0x0010	word	Temperature output delay time after power-up	t.PoN	R / W
0017d	0x0011	word	Humidity output delay time after power-up	h.PoN	R / W
0018d	0x0012	word	Alarm message display delay time after power-up	R.PoN	R / W
0019d	0x0013	word	Fan ON time duration.	F.oN	R / W
0020d	0x0014	word	Fan OFF time duration.	F.oFF	R / W
0021d	0x0015	word	Rotating ON time duration.	r.oN	R / W
0022d	0x0016	word	Rotating OFF time duration..	r.oFF	R / W
0023d	0x0017	word	Integral time for PID control	t.t _i	R / W
0024d	0x0018	word	Derivation time for PID control.	t.t _d	R / W
0025d	0x0019	word	Temperature input type (0:0-20, 1:4-20, 2:0-10, 3:1-5)	t.inP	R / W
0026d	0x001A	word	Humidity input type (0:0-20, 1:4-20, 2:0-10, 3:1-5)	h.inP	R / W
0027d	0x001B	word	Proportional band for PID control	t.Pb	R / W
0028d	0x001C	word	Periodic time for PID control	t.PcP	R / W

1.2 INPUT REGISTERS

Input Register Addresses		Data Type	Data Content	Parameter Name	Read /Write Permission
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 port 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 Permission
Decimal	Hex				
00d	0x00	bit	Temperature unit OFF=0C, ON=0F	UnIt	R / W
01d	0x01	bit	Decimal indication OFF=no, ON=YES	dPnIt	R / W
02d	0x02	bit	Buzzer OFF=no, ON=YES	Snd	R / W
03d	0x03	bit	Temperature control OFF = Lo, ON = Relative alarm H _i	t.cnIt	R / W
04d	0x04	bit	Humidity control OFF = Lo, ON = Relative alarm H _i	h.cnIt	R / W
05d	0x05	bit	Fan Control (no: Fan not active, YES: Fan active)	F.cnIt	R / W
06d	0x06	bit	Rotating Control (no: Rotating not active, YES: Rotating active)	r.cnIt	R / W
07d	0x07	bit	Temperature alarm configuration OFF = RbS. ON = Relative alarm rEF	RtEP	R / W
08d	0x08	bit	Humidity alarm configuration OFF = RbS, ON = Relative alarm rEF	RhEP	R / W
09d	0x09	bit	PID temperature control selection OFF = YES, ON = no	t.Pid	R / W

1.4 DISCRATE INPUTS

Discrete Inputs Addresses		Data Type	Data Content	Parameter Name	Read /Write Permission
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