



ENDA EHTC7425A HUMIDITY AND TEMPERATURE CONTROLLER User Guide

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ENDA

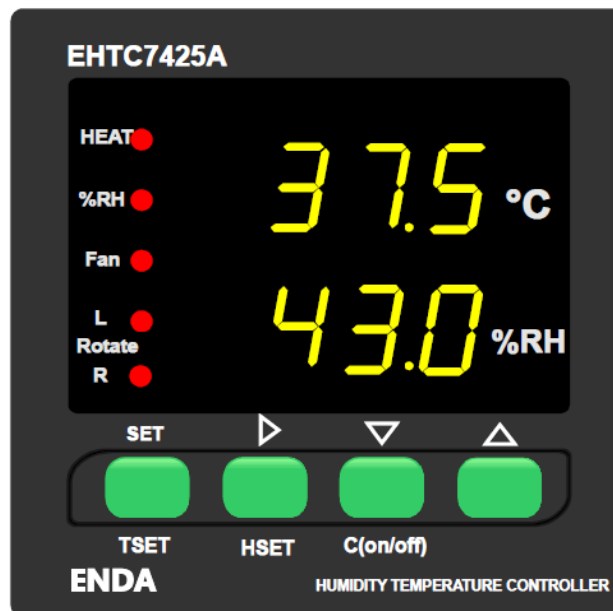
ENDA EHTC7425A HUMIDITY AND TEMPERATURE CONTROLLER



- 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

- 72 x mm sized.
- Dual 4 digit 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.
- Time and temperature-dependent fan relay output selection.
- 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	2

 -

3	4

1. Input

AS.....Analog Input

DS.....Digital Input

Sensor must be ordered separately.

2. Supply Voltage

230.....230V AC

110.....110V AC

SM.....10...30V DC

8...24V AC

3. Mod Bus

Blank.....N/A

RSI.....Mod Bus

Specify at Order).

Please see page 6 for Modbus Connection Diagram.

4. SSR

Blank.....N/A

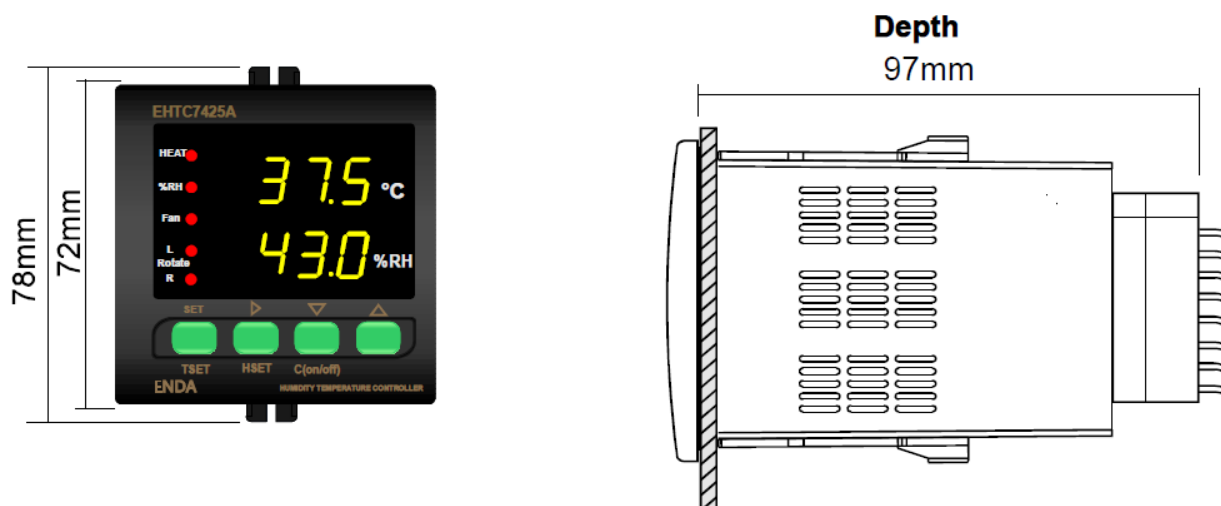
SSR.....Mod Bus

Applies to the heat output)

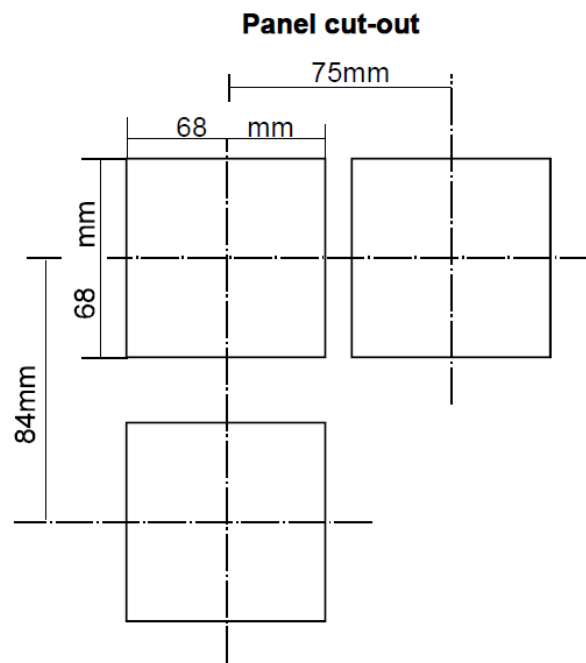
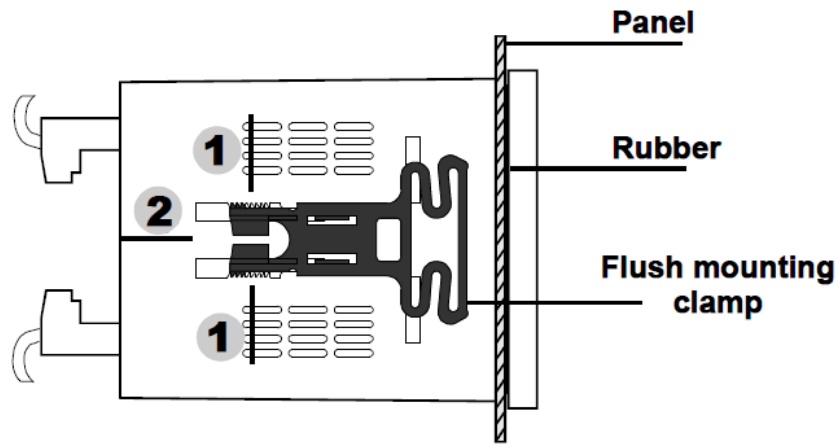
TECHNICAL SPECIFICATIONS

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	2.5mm² 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.			
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



1. To removing the device from panel : – While pressing both side of the device in direction **1** and push it in direction **2**

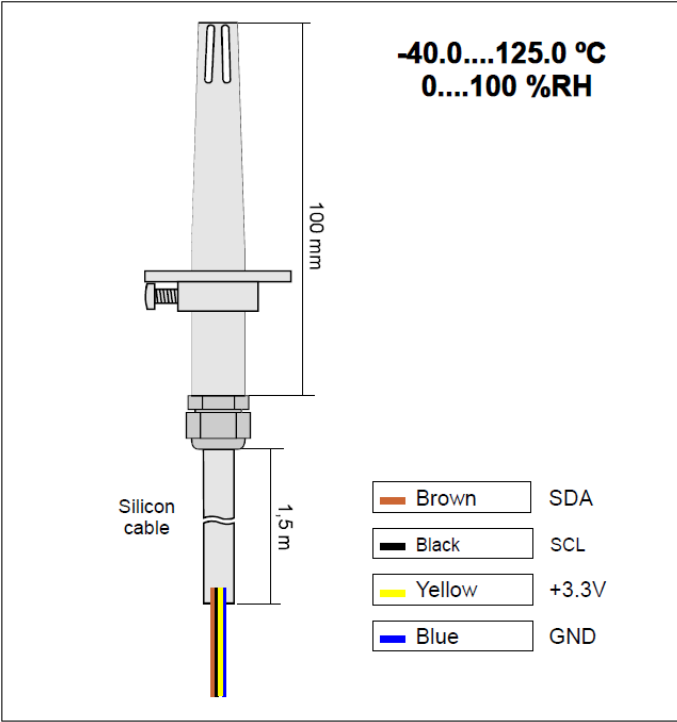


NOTE:-

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)

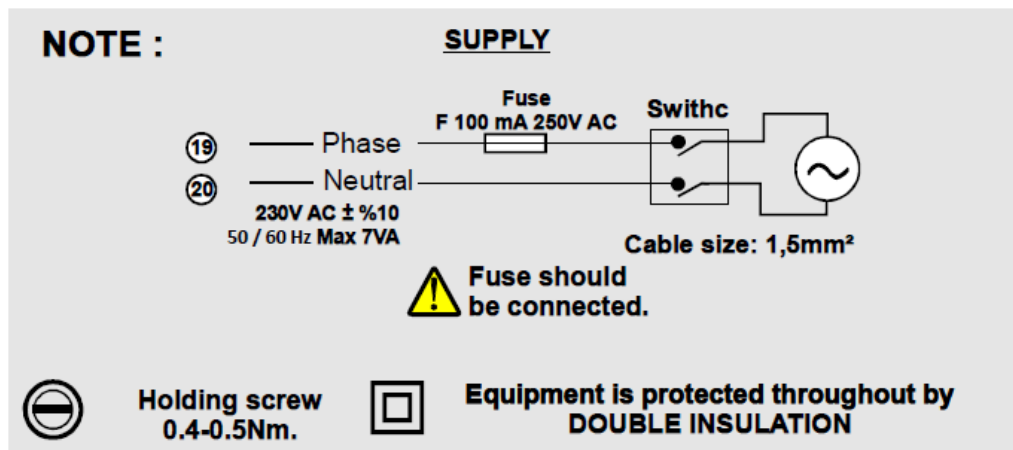
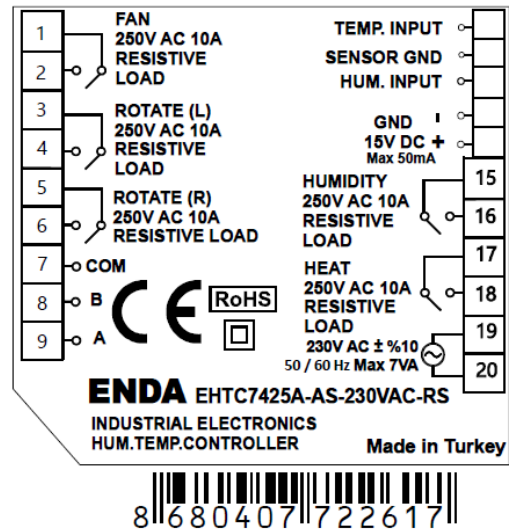
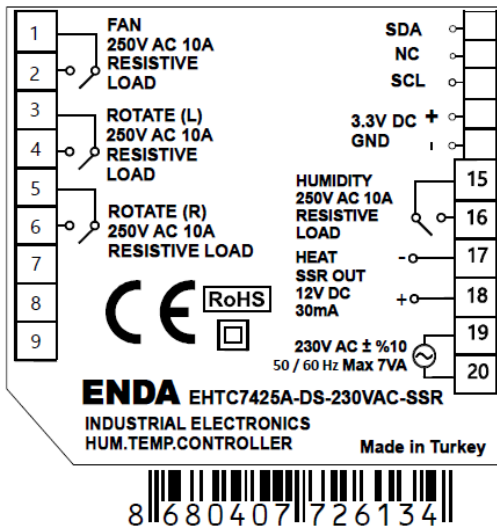
EHTD-CB-100 Digital Output Humidity Temperature Sensor



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 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	

INSTALLATION

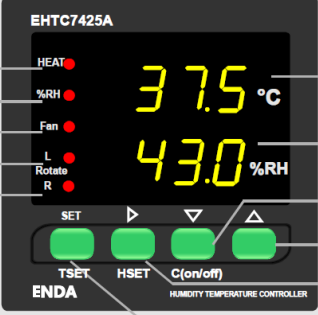


Note :-

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.

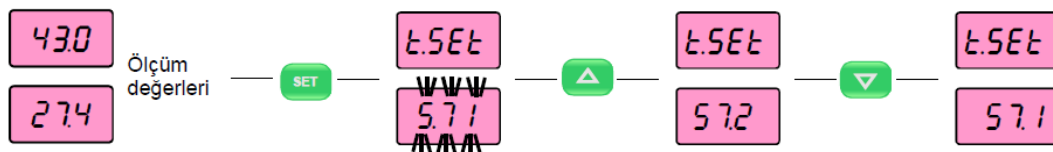
ENDA EHTC725A is intended for installation in control panels. Make sure that the device is used only for intended purpose. The shielding must be grounded on the instrument side. During an installation, all of then cables that are connected to the device must be free of energy. The device must be protected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

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.

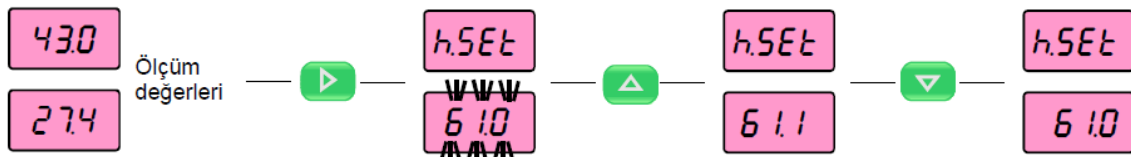
Displaying and Changing Temperature Set Values

Displaying and Changing Temperature Set Values



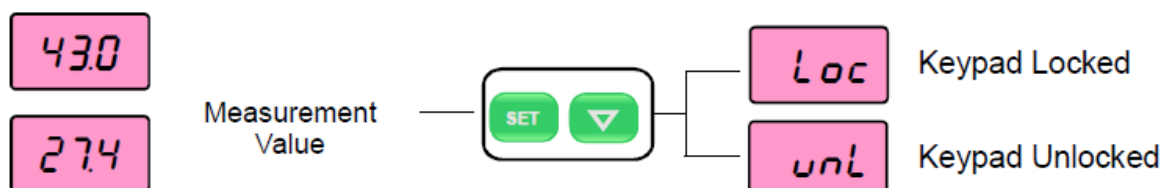
- During "Running Mode", if  key is preset, temperature setpoint value flashes for 3 seconds. While flashing, by pressing  and  keys, temperature value can be changed
- If no key is pressed for 3 seconds or if one of the set keys is pressed again, adjusted set value is saved and the "Running Mode" is 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  and  keys are pressed together for 2 seconds, L o c message is displayed and the keypad locked. While keypad is locked, if  and  keys are pressed together for 2 seconds,
- u n L message is displayed and the keypad unlocked and “Running Mode” is entered. While keypad is locked, if one of the key is pressed, L o c 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, C.d,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, C.E n B 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.

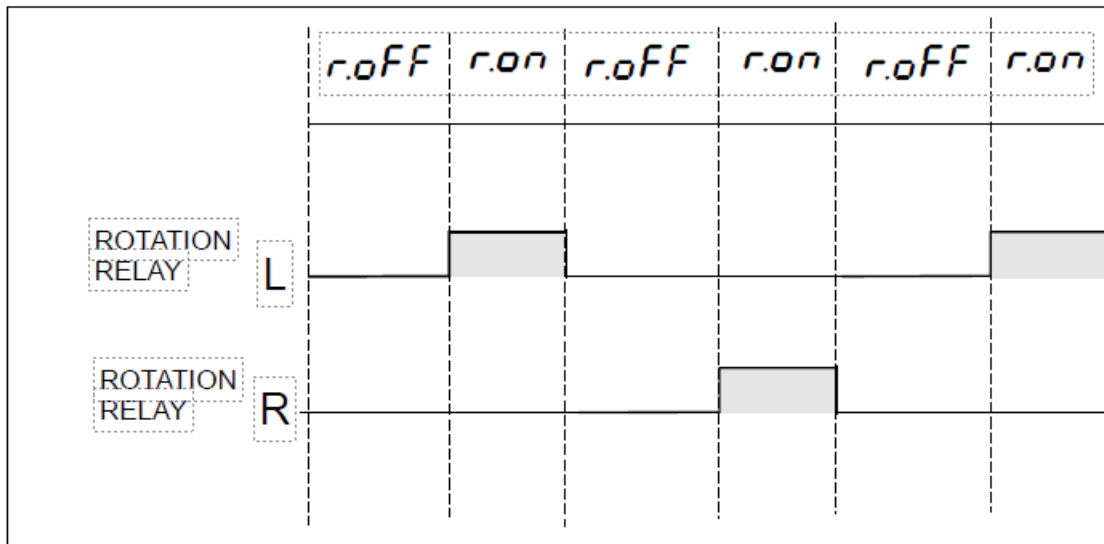
Default Settings

- Powered on device by pressing  key d. p a r message appears on display and device reset to default settings.

Displaying Revision Number

- If    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. o f F)

Error – Warning – Alarm Definitions



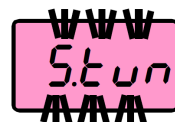
- Sensor Failure. Check the sensor connection. The audible warning is activated. Temperature and humidification outputs are disabled. Analog outputs are zero.



- Temperature Alarm. Audible warning is activated. Current temperature flashes. Outputs are disabled when the upper limit is exceeded.



- Humidification Alarm. Audible warning is activated. Current humidity flashes. Outputs are disabled when the upper limit is exceeded.



- Self tune menu has been entered.



- During self tune menu, indicates that the measured temperature value is greater than 60% of the set value. In this case, self tune process can not be started.



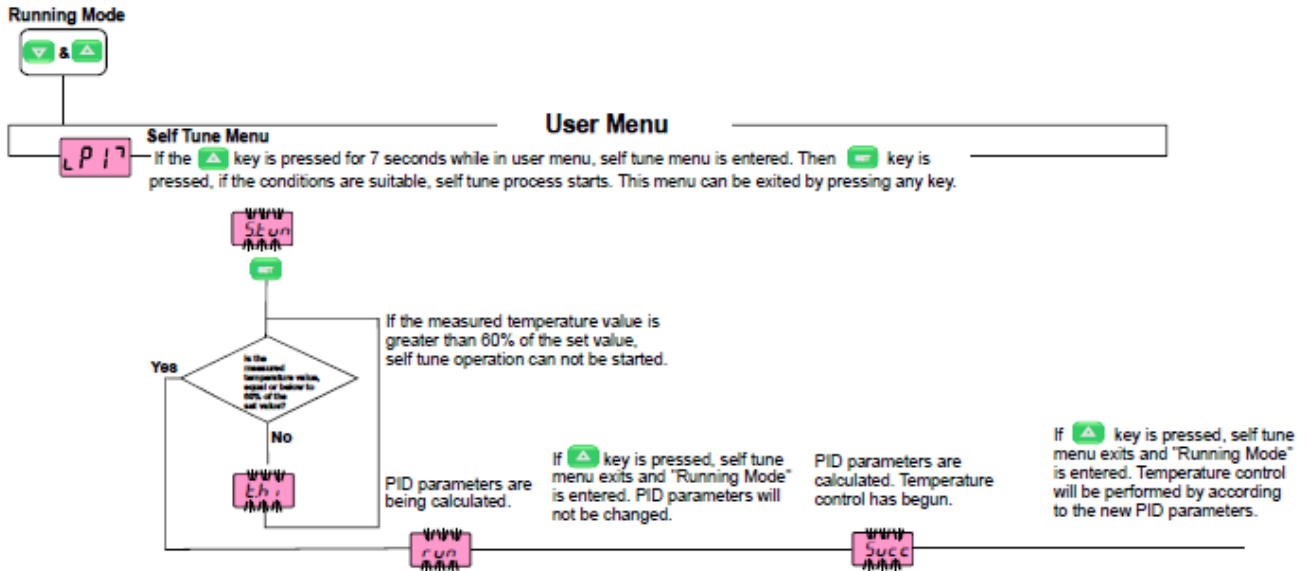
- Self tune process is running.



Self tune process has been successfully completed.

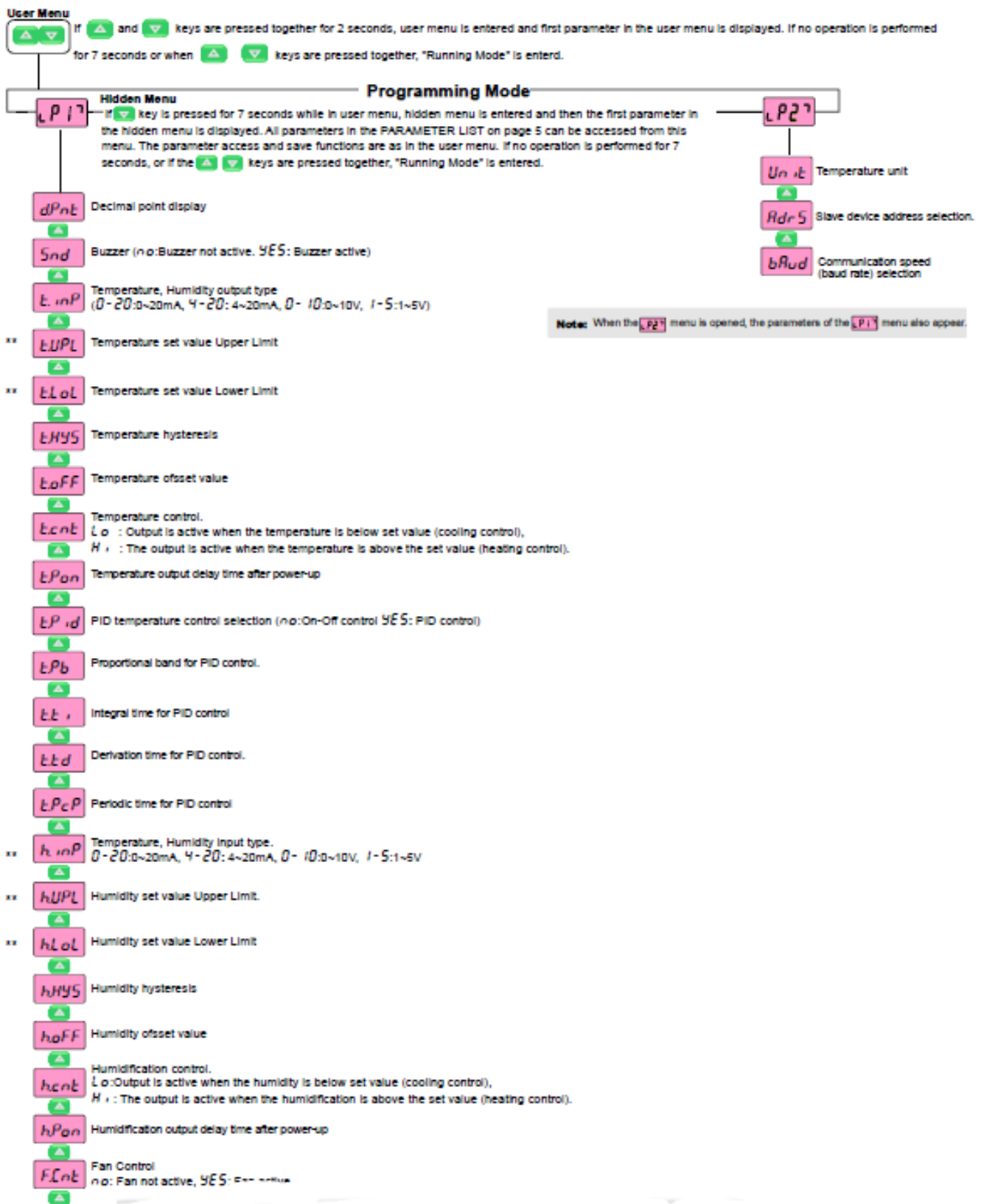
SELF TUNE OPERATION

- In order to start the Self-tune operation, t.Pid parameter must be set to YE5 .



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 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.



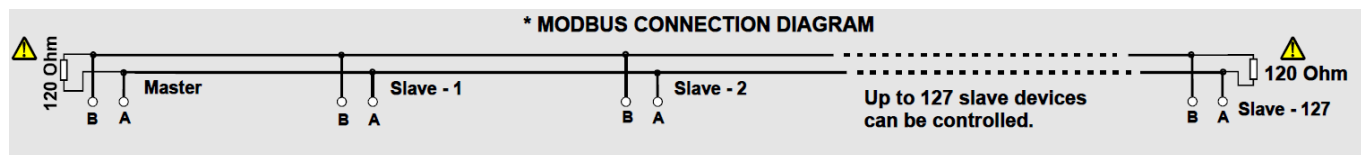
The marked parameters are valid only for the humidity temperature sensor model with analogue input.

PROGRAMMING THE DEVICE (2/2)



FSP	$tESP$: The fan runs at temperature-dependent.)
FSTR	Fan temperature control ($L\alpha$: The fan will be activated when the temperature value below the setpoint, , YES : The fan will be activated when the temperature value above the setpoint).
FSEt	Fan setpoint value.
FHYS	Fan hysteresis value.
FtSP	Fan alarm setpoint value.
FHYS	Fan alarm hysteresis.
Fon	Fan ON time duration.
Foff	Fan OFF time duration.
rCnt	Rotating Control (no: Rotating not active, YES : Rotating active)
ron	Rotating ON time duration
roff	Rotating OFF time duration.
APon	Alarm message display delay time after power up
RtEP	Temperature alarm configuration (RbS : Absolute alarm, rEF : Relative alarm) RbS : Alarm values are $RtLo$ and RtH ; rEF : Alarm values are $RtLo = tSEt - RtLo$ and $RtH = tSEt + RtH$;
RtH	Temperature upper level alarm (If $RtEP$ is changed, this parameter must be re-programmed).
RtLo	Temperature lower level alarm (If $RtEP$ is changed, this parameter must be re-programmed)
RtHS	Temperature alarm hysteresis
RhEP	Humidity alarm configuration (RbS : Absolute alarm, rEF : Relative alarm) RbS : Alarm values are $RhLo$ and RhH ; rEF : Alarm values are $RhLo = hSEt - RhLo$ and $RhH = hSEt + RhH$;
RhH	Humidity upper level alarm.. (If $RhEP$ is changed, this parameter must be re-programmed)
RhLo	Humidity lower level alarm.(If $RhEP$ is changed, this parameter must be re-programmed)
RhHS	Humidity alarm hysteresis.

MODBUS CONNECTION



- Termination should be accomplished by attaching 120 Ohm resistors to the start and at the end of the communication line.
- Applies to devices with Modbus function.

PARAMETER LIST

PARAMETER LIST					
CONFIGURATION PARAMETERS		Minimum	Maximum	Unit Type	Default
Unit	Temperature unit OFF=°C, ON=°F	°C	°f		°C
dpnt	Decimal indication OFF=no, ON=YES	no	YES		no
5nd	Buzzer OFF=no, ON=YES	no	YES		no
TEMPERATURE CONTROL PARAMETERS					
t.inp	Temperature, input type (:00~2200mA, 44~2200m: A, :00~1100V, :11~5-V5) Only available in humidity temperature sensor models with analog output.	0-20	1-5	mA / V	0-20
t.upl	Temperature Upper Limit. Only available in humidity temperature sensor models with analog output.	t.LoI	125	°C / °F	60
t.LoI	Temperature Lower Limit. Only available in humidity temperature sensor models with analog output.	-40	t.upl	°C / °F	-40

t.Hy5	Temperature hysteresis	1	20	°C / °F	2
t.oF F	Temperature of set value	-20	20	°C / °F	0
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).	LO	Hi		Hi
t.Pon	Temperature output delay time after power-up	00:00	99:00	min:sec	1:00
t.Pid	PID temperature control selection (:noOn-Off control D control) YEP5I:	no	YE5		no
t.pb	Proportional band for PID control	0	100	%	14
t.ti	Integral time for PID control	00:00	99:00	min:sec	1:56
t.td	Derivation time for PID control.	00:00	99:00	min:sec	0:35
t.Pcp	Periodic time for PID control	00:00	02:00	min:sec	0:20
HUMIDIFICATION CONTROL PARAMETERS					
h.inp	Humidity input type (:00~2200mA, 44~2200mA, :00~1100V, :11~5-V5) Only available in humidity temperature sensor models with analog output.	0-20	1-5	mA / V	0-20

h.upl	Humidity Upper Limit. Only available in humidity temperature sensors or models with analog output.	h.Lol	100	%RH	100
h.Lo	Humidity Lower Limit. Only available in humidity temperature sensors or models with analog output.	0	h.upl	%RH	0
h.Hys	Humidity hysteresis	1	20	%RH	2
h.oFF	Humidity offset value	-20	20	%RH	0
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).	LO	Hi		Hi
h.Pon	Humidification output delay time after power-up	00:00	99:00	min:sec	1:00
FAN CONTROL PARAMETERS					
F.Cnt	Fan Control (:n Fan not active, Y:EF5 Fan active)	nO	YE5		YE5
FtYP	Fan output type selection (:t Time Fan runs at time-dependent., tEmp : The fan runs at temperature-dependent.)	time	tEmp		tEmp
F5Et	Fan setpoint value	-40	125	°C / °F	38

F5tA	Fan temperature control (L: To the fan will be activated when the temperature value below the setpoint. , YE5 : The fan will be activated when the temperature value above the setpoint).	Lo	Hi		Hi
FHY5	Fan hysteresis value	1	20	°C / °F	1
F.on	Fan ON time duration.	00:00	99:00	hr:min	1:00
F.oFF	Fan OFF time duration.	00:00	99:00	hr:min	1:00
F.t5P	Fan alarm setpoint value.	t.loI	t.uPL	°C / °F	50
F.AH5	Fan alarm hysteresis.	1	20	°C / °F	2
RIGHT – LEFT Rotating CONTROL PARAMETERS					
r.Cnt	Rotating Control (:n Rotating not active, Y:ER5 otating active)	nO	YE5		YE5
r.on	Rotating ON time duration.	00:00	99:00	min:sec	1:00
r.oFF	Rotating OFF time duration.	00:00	99:00	hr:min	1:00
ALARM PARAMETERS					

A.Pon	Alarm message display delay time after power up	00:00	99:00	min:sec	1:00
A.ttp	Temperature alarm configuration (AB5 : Absolute alarm, rEF : Relative alarm) A.b5: Alarm values are AtLo and AtHi rEF: Alarm values are Atlo = $t.5Et - A.tlo$ and A.tHi = $t.5Et + A.tHi$	Ab5	rEF		Ab5
A.tHi	Temperature upper level alarm (If AttP is changed, this parameter must be re-programmed).	A.tLo	125	°C / °F	125
A.tlo	Temperature lower level alarm (If AttP is changed, this parameter must be re-programmed)	-40	A.tHi	°C / °F	-40
A.tH5	Temperature alarm hysteresis	1	20	°C / °F	2
A.htp	Humidity alarm configuration (AB5 : Absolute alarm, rEF : Relative alarm) A.b5: Alarm values are A.hLo and A.hHi rEF: Alarm values are A.hlo = $t.5Et - A.hlo$ and A.hHi = $h.5Et + A.hHi$	Ab5	rEF		Ab5
A.hHi	Humidity upper level alarm. (If A.htP is changed, this parameter must be re-programmed)	A.hLo	100	%RH	100
A.hlo	Humidity lower level alarm.(If A.htP is changed, this parameter must be re-programmed)	0	A.hHi	%RH	0
A.hH5	Humidity alarm hysteresis.	1	20	%RH	2

MODBUS COMMUNICATION PARAMETERS

Adr5	Slave device address selection	1	247		1
baud	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				
0000 d	0x00 00	word	Temperature set value	t.5Et	R / W
0001 d	0x00 01	word	Temperature set value Upper Limit	t.uPL	R / W
0002 d	0x00 02	word	Temperature set value Lower Limit	t.LoL	R / W
0003 d	0x00 03	word	Temperature upper level alarm	A.tHi	R / W
0004 d	0x00 04	word	Temperature lower level alarm	A.tlo	R / W

0005 d	0x00 05	wo rd	Temperature hysteresis	t.HY5	R / W
0006 d	0x00 06	wo rd	Temperature of set value	t.off	R / W
0007 d	0x00 07	wo rd	Temperature alarm hysteresis	A.tH5	R / W
0008 d	0x00 08	wo rd	Humidity set value	h.5Et	R / W
0009 d	0x00 09	wo rd	Humidity set value Upper Limit	h.upl	R / W
0010 d	0x00 0A	wo rd	Humidity set value Lower Limit	h.lol	R / W
0011 d	0x00 0B	wo rd	Humidity hysteresis	h.Hy 5	R / W
0012 d	0x00 0C	wo rd	Humidity of set value	h.off	R / W
0013 d	0x00 0D	wo rd	Humidity upper level alarm	a.hHi	R / W
0014 d	0x00 0E	wo rd	Humidity lower level alarm	a.hlo	R / W
0015 d	0x00 0F	wo rd	Humidity alarm hysteresis	a.hH 5	R / W
0016 d	0x00 10	wo rd	Temperature output delay time after power-up	t.pon	R / W
0017 d	0x00 11	wo rd	Humidity output delay time after power-up	h.po n	R / W

0018 d	0x00 12	wo rd	Fan setpoint value.	F5Et	R / W
0019 d	0x00 13	wo rd	Fan hysteresis.	FHY5	R / W
0020 d	0x00 14	wo rd	Fan alarm setpoint value.	Ft5p	R / W
0021 d	0x00 15	wo rd	Fan alarm hysteresis.	FAH5	R / W
0022 d	0x00 16	wo rd	Fan ON time duration.	f.on	R / W
0023 d	0x00 17	wo rd	Fan OFF time duration.	F.oF F	R / W
0024 d	0x00 18	wo rd	Rotating ON time duration.	r.on	R / W
0025 d	0x00 19	wo rd	Rotating OFF time duration..	r.oFF	R / W
0026 d	0x00 1A	wo rd	Alarm message display delay time after power-up	A.Po n	R / W
0027 d	0x00 1B	wo rd	Integral time for PID control	t.ti	R / W
0028 d	0x00 1C	wo rd	Derivation time for PID control.	t.td	R / W
0029 d	0x00 1D	wo rd	Temperature input type (0: 0-20 , 1: 4-20 , 2: 0-10 , 3: 1-5)	t.inp	R / W
0030 d	0x00 1E	wo rd	Humidity input type (0: 0-20 , 1: 4-20 , 2: 0-10 , 3: 1-5)	h.inp	R / W

0031 d	0x00 1F	wo rd	Proportional band for PID control	t.pb	R / W
0032 d	0x00 2A	wo rd	Periodic time for PID control	t.pcp	R / W
0033 d	0x00 21	wo rd	Address selection for slave device.	Adr5	R / W
0034 d	0x00 22	wo rd	Baud Rate	bAud	R / W

1.2 INPUT REGISTERS

Input Register Addresses		Da ta Ty pe	Data Content	Para mete r Na me	Read /Wr ite Permi sson
Deci mal	Hex				
0000 d	0x00 00	wo rd	Measured temperature value (°C / °F)	—	R
0001 d	0x00 01	wo rd	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	Da ta Ty	Data Content	Para mete r Na	Read /Wr ite Permi sson

Decimal	Hex	pe		me	
00d	0x00	bit	Temperature unit OFF=°C,ON=°F	Unit	R / W
01d	0x01	bit	Decimal indication OFF=no, ON=YES	D.PN t	R / W
02d	0x02	bit	Buzzer OFF=no, ON=YES	5nd	R / W
03d	0x03	bit	Temperature control OFF = lo, ON = Relative alarm Hi	t.cnt	R / W
04d	0x04	bit	Humidity control OFF = lo, ON = Relative alarm Hi	h.cnt	R / W
05d	0x05	bit	Fan Control (:n Foan not active, Y:EF5an active)	F.cnt	R / W
06d	0x06	bit	Fan output type selection (OFF = time, ON = tEmp)	F.tYP	R / W
07d	0x07	bit	Fan temperature control (OFF = Lo, ON = Hi)	F.5tA	R / W
08d	0x08	bit	Rotating Control (:nRotating not active, Y:ER5otating active)	r.cnt	R / W
09d	0x09	bit	Temperature alarm configuration OFF = Ab5, ON = Relative alarm rEF	a.ttp	R / W
010d	0x0A	bit	Humidity alarm configuration OFF = Ab5, ON = Relative alarm rEF	a.htp	R / W
011d	0x0B	bit	PID temperature control selection OFF = yE5, ON = no	t.pid	R / W

1.4 DISCRATE INPUTS

Discrate In puts Addresses	Da ta Ty	Data Content	Para mete r Na	Read /Wr ite Permi
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Decimal	Hex	pe		me	sson
0000 d	0x00 00	bit	Temperature relay output status (0=OFF; 1=ON)	—	R
0001 d	0x00 01	bit	Humidification relay output status (0=OFF; 1=ON)	—	R
0002 d	0x00 02	bit	Fan relay output status (0=OFF; 1=ON)	—	R
0003 d	0x00 03	bit	Right Rotating relay output status (0=OFF; 1=ON)	—	R
0004 d	0x00 04	bit	Left Rotating relay output status (0=OFF; 1=ON)	—	R

Documents / Resources

	ENDA EHTC7425A HUMIDITY AND TEMPERATURE CONTROLLER [pdf] User Guide HUMIDITY AND TEMPERATURE CONTROLLER, EHTC7425A
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References

- [Elektronik - Elektroniknet](#)
- [SURAN Industrieelektronik | Home](#)