



# CONFIGURABLE DIGITAL RELATIVE HUMIDITY MONITOR

EC 3-463

## **GENERAL CHARACTERISTICS**

- \* Size: 74 x 32 mm.
- \* Power supply: 12 or 12-24Vac/dc
- \* Three digit display, heigt: 12,5mm.
- \* Indication of relative humidity with decimal point
- \* Custom configuration through keyboard or Personal Computer
- $\ * \ Possibility of \ field-reconfiguration$
- \* Easy integration with remote-assistance or remotemeasuring

EC 3-463 is a three digit relative humidity monitor designed to work with current output 0-20 mA or 4-20 mA, 2 or 3 wires humidity transducers (for example EC UMD 00 and EC UMD 01 manufactured by Every Control).

The electronical solutions of this instrument make it able to power-supply the transducers, as long as they can work inside a range of supply-voltage between 9 an 20 V.

Failure of functioning, defective probe, corrupted memory-data or probe-signal outside the limits are indicated by the flashing display, in order to catch user's attention.

The possibility of field-reconfiguration and the chance of being connected in remote-measuring or remote assistance network, makes it highly flexible in the use and able to meet the most different needs.



### MOUNTING

For a proper mounting, take note of the attached indications; be sure that the conditions of use (voltage of powersupply, environment temperature, humidity) are inside the instrument working limits.

Voltage at terminal 12 is not stabilized. If the transducer is powered by the instrument, it should be verified that in all working conditions, especially for high humidity values, **the voltage on the transducer** does not drop below the minimum working value, in order to guarantee a correct measure.

WARNING : according to the source of power-supply, find a protection able to limit the quantity of current absorbed by the instrument in case the failure.

#### CONFIGURATION

Push	Cfg	and keep it pushed for 4 sec. at least : "PA" will appear on the display
Release	Cfg	and push it straight after:
		the first modifiable parameter will appear on the screen
Release and push	Cfg	until the requested parameter appears
Keep pushed	Cfg	for 4 sec. at least :
	Ũ	the parameter value will appear on the screen
Keep pushed again	Cfg	for 4 sec. at least :
	Ŭ	the displayed value start increasing at the speed of 1 digit for $1/2$ sec.
Release	Cfg	at the reaching of the requested value.

WARNING: The parameter value gets increased at the speed of 1 digit for 1/2 sec., until the upper end of scale reaching, afterwards the instrument returns to the lower end of scale, and from here it keeps increasing.

#### To exit the configuration

Push  $\bigcirc$  again after the selection of the last available parameter, or wait 50 seconds, or switch the power supply off, and then, switch it on.

#### SIGNALS AND ALARMS

- "E0" flashing on the display means one of the following defects: probe-signal outside the limits, defective probe or wrong connection (in case of not connected probe, the indication "E0" will appear if the parameter is /0=30 (4-20 mA) and "0" if the parameter is /0=31 (4-20 mA)).
- "E2" flashing on the display: failure of memorised configuration-data; try to switch the power-supply off, and then, switch it on.

## **CONFIGURATION PARAMETERS**

CODE	PARAMETER DI	SCRIPTION	MIN	MAX	U.M.	STANDARD	
/	PROBE						
/0	kind of probe 30	= 4-20 mA ; 31 = 0-20 mA	30	31		30	
/1	calibration		-9.0	+10	%rH	0	
/2	digital filter(speed response) 0=0s; 1=0.4s; 2=1.	2s; 3=3.0s; 4=8.0s; 5=19.8s; 6=48.0s	0	6		3	
/4	without leading zeros 0=	NO; 1=SI	0	1		1	
/5	with decimal point 0=	NO; 1=SI	0	1		0	
/6	start of scale for input 0-20 mA or 4-20 mA corris	pondent to input's minimum value	-99	999	%rH	0	
/7	end of scale for input 0-20 mA or 4-20 mA corrisp	ondent to input's maximum value	-99	999	%rH	100	
L	NETWORK CONNECTION						
L1	instrument address		1	15	——	1	
L2	instrument group		0	7		0	

EVERY CONTROL

#### HOW TO ENTER THE CONFIGURATION KEY

Use a suitable tool (for instance, a small top screw-driver) to operate on the key through the side openings.



