LABEL	MIN.	MAX.	U.M.	DEF.	serial network (evcobus)
L1	1	15		1	instrument address
L2	0	7	-	0	instrument group
L4	0	3	-	1	baud rate (0 = 1,200 baud, 1 = 2,400 baud, 2 = 4,800 baud, 3 = 9,600 baud)

(3) the unit of measure depends on the parameter /d

(4) if the parameter /9 has value 0, the parameter will not be showed

(5) the value depends on the range of the transducer the instrument has been preset

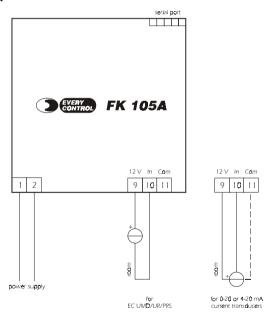
(6) if the immediate change of the process variable is minor than the one you have set with the parameter, the process variable will be updated every 7.5 s by an algorithm of the

instrument

(7) if the parameter has value 2, no LED will indicate the unit of measure of the process variable

8 ELECTRICAL CONNECTION

8.1 Electrical connection



FK	
105A	

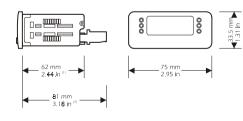
Digital humidity/pressure indicator

Version 1.00 of March the twenty-fourth, 2003	
File fk105ae_v1.00.pdf	
PT	
EVERY CONTROL S.r.I.	
This Company belongs to EVCO group	
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1 PREPARATIONS

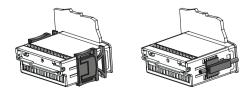
1.1 How to install the instrument

Panel mounting, panel cut out 71×29 mm (2.79 x 1.14 in), with click brackets (they are supplied by the builder) or screw brackets (by request).



(1) maximum depth with screw terminal blocks (by request)

[2] maximum depth with extractable terminal blocks (standard model). \sub



installation with click brackets (on the left-hand side, they are supplied by the builder)

and screw brackets (on the right-hand side, by request); if you are using screw brackets,

you have to moderate the clamping torque, in order not to damage the box and screw

brackets.

2 OPERATION

2.1 Preliminary information

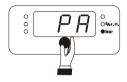
During the normal operation the instrument shows the process variable.

3 CONFIGURATION PARAMETERS

3.1 How to set the configuration parameters

If you have to gain access the procedure:

• position the magnet (it is supplied by the builder) below the digit there is in the middle of the display for 4 s \mathcal{P} : the instrument will show \mathcal{P}



If you have to select a parameter:

 move the magnet from the left towards the digit there is in the middle of the display (keep the magnet below the display) as long as the instrument shows the parameter you prefer



If you have to modify the value of the parameter:

 move the magnet from the left towards the digit there is in the middle of the display (keep the magnet below the display) in order to select the parameter and keep the position for 4 s



 keep the position as long as the instrument show the value you prefer



- If you have to quit the procedure:
- move the magnet from the left towards the digit there is in the middle of the display (keep the magnet below the display) as long as the instrument shows the process variable or do not operate for about 60 s.

4 SIGNALS

4.1 Signals										
LED	MEANING									
%r.H.	Relative humidity LED									
	if it is lighted, the unit of measure of the process variable is relative hu-									
	midity									
bar	Bar LED									
	if it is lighted, the unit of measure of the process variable is bar									

5 ALARMS

5.1 A	larms		
CODE	REASONS	REMEDIES	EFFECTS
62	there is the corruption	switch off the power	you can not gain ac-
corrupted	of the configuration	supply of the instru-	cess the setting proce-
memory	data of the memory of	ment: unless the alarm	dures
data	the instrument	disappears, you will	
		have to change the in-	
		strument	
E 0	• the kind of room	 look at the param- 	the instrument will
room	probe you have con-	eter /0	not show the process
probe	nected is not right	 test the integrity of 	variable
alarm	• the room probe	the probe	
	plays up	• test the instrument-	
	• the connection in-	probe connection	
	strument-room		
	probe is wrong		

	• the process variable	• test the process vari-				
	is outside the limits	able close to the				
	allowed by the work-	probe (it has to be				
	ing range of the in-	between the limits				
	strument	allowed by the work-				
		ing range)				
SAF	the process variable is	test the process vari-	if the parameter /9			
saturation	outside the limit you	able close to the probe	has value 1, the instru-			
of the	have set with the pa-	(look at the parameters	ment will work as if			
display	rameter rA7	/3, /9 and rA7)	the process variable			
			were always the value			
			you have set with the			
			parameter rA7			
process	the process variable is	test the process vari-	if the parameter /9			
variable	outside the limit you	able close to the probe	has value 1, the instru-			
process	have set with the pa-	(look at the parameters	ment will work as if			
variable	rameter rA6 or rA7	/9, rA6 and rA7)	the process variable			
out of			were always the value			
scale			you have set with the			
			parameter rA6 or rA7			
6 TI	ent shows the indications ECHNICAL DATA	-				
Box: self-ext	tinguishing grey.					
	33.5 x 81 mm (2.95 x 1.3	31 x 3.18 in) the model v	with extractable terminal			
	dard model), 75 x 33.5 x					
screw termir	nal blocks (by request).					
	n: panel mounting, pane	el cut out 71 x 29 mm (2	.79 x 1.14 in), with click			
brackets (the	ey are supplied by the bui	ider) or screw brackets (b	y request).			
Frontal pro	otection: IP 65.					
Connectio	ns: extractable terminal b	blocks with pitch 5 mm (0).19 in, standard model)			
for cables up	o to 2.5 mm² (0.38 sq in,	power supply and input)	or screw terminal blocks			
with pitch 5	mm (0.19 in, by request) f	or cables up to 2.5 mm² (0.38 sq in, power supply			
and input), 5	5 poles single line male co	onnector with pitch 2.5 m	nm (0.09 in, serial port).			
Ambient to	emperature: from 0 to 5	55 °C (32 to 131 °F, 10	90% of relative humidity			
without con	densate).					
Power supply: 12-24 Vac/dc, 50/60 Hz, 1.5 VA (standard model) or 12 Vac/dc,						
50/60 Hz, 1	.5 VA (by request).					
Menaure in	- I man arch - 1 f-	r 0 70 or 4 70 m4	t transducars			

Measure inputs: 1 (room probe) for 0-20 or 4-20 mA current transducers.

At terminal 9 there are 12 V you can use in order to supply the transducer.

Working range: configurable (it depends on the range of the transducer).

Resolution: 0.1 or 1 %r.H./bar.

Display: one red LED 3-digit display 13.2 mm (0.51 in) high, process variable unit of

7 CONFIGURATION PARAMETERS

7.1 Configuration parameters

LABE	L MIN.	MAX.	U.M.	DEF.	RESERVED
PA		-		_	reserved

LABEL	MIN.	MAX.	U.M.	DEF.	MEASURE INPUTS
/0	30	31		30	kind of probe (30 = 4-20 mA, 31 = 0-20 mA)
/1	-25	25.0	%r.H./bar ⁽³⁾	0.0	room probe calibration
/2	0	6		3	probe reading speed (0 = fast,, 6 = slow)
/3	0	1	-	0	indication "SAt" flashing on the display during the saturation of the display (it is important if
					$/9 \neq 0; 1 = YES)^{(4)}$
/5	0	1		1	process variable resolution (0 = 1 %r.H./bar, 1 = 0.1 %r.H./bar)
/6	-99	999	points	(5)	minimum value of the range of the transducer
/7	-99	999	points	(5)	maximum value of the range of the transducer
/9	0	4		0	display mode (0 = during the normal operation the instrument shows the process variable,
					1 = during the normal operation the instrument shows the process variable, as soon as the
					process variable falls below the threshold you have set with the parameter rA6 or rises
					above the threshold you have set with the parameter rA7 the instrument will show the value
					of the threshold flashing and the instrument will work as if the process variable were always
					the value you have set with the parameter rA6 or with the parameter rA7, $2 = during$ the
					normal operation the instrument shows the process variable, as soon as the process variable
					falls below the threshold you have set with the parameter rA6 or rises above the threshold
					you have set with the parameter rA7 the instrument will show the value of the threshold
					flashing, 3 = reserved, 4 = reserved)
/b	0.0	25.0	%r.H./bar ⁽³⁾	0.0	minimum immediate change of the process variable in order that it can immediately be
					considered by the instrument (0.0 = the function will not be enabled) (6)
/d	0	2		1	process variable unit of measure (0 = bar, 1 = %r.H., 2 = dimensionless) ⁽⁷⁾

LABEL	MIN.	MAX.	U.M.	DEF.	REGULATOR
rA6	-99	rA7	%r.H./bar ⁽³⁾	0.0	lower process variable value the instrument freezes the display (it is important if /9 \neq 0)
rA7	rA6	999	%r.H./bar ⁽³⁾	100	upper process variable value the instrument freezes the display (it is important if /9 \neq 0)

measure indicators.

Serial port: TTL with EVCOBUS communication protocol (for the configurer/cloner

system CLONE and supervision system RICS).