installation with screw brackets (position the brackets as indicated); you have to moder-

ate the clamping torque, in order not to damage the box and screw brackets.

2	OPERATION

2.1 How to turn the instrument ON/OFF

If you have to turn the instrument ON/OFF:

press on/off

During the normal operation the instrument prints and/or stores

the values the probes are reading and the events.

During the OFF mode the instrument stores the values the probes are reading and the events.

2.2 How to feed the paper by hand

If you have to feed the paper by hand:

press (feed)

2.3 How to change the roll of paper

If you have to change the roll of paper:

• turn the instrument OFF

🛚 press 🛛 🕒

feed

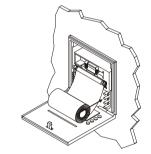
press

for opening the panel at the front of the instrument

slip the roll of paper into the lower side of the roller

as long as the roller drags

the roll of paper



• put the roll of paper into its box



close the panel at the front of the instrument.

PR 100A

Two	channels	data	recorder	(one	can	ex-
-----	----------	------	----------	------	-----	-----

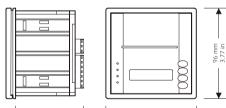
pand them up to six)

GLISH

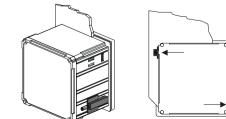
1 PREPARATIONS

1.1 How to install the instrument

Panel mounting, panel cut out $92 \times 92 \text{ mm} (3.62 \times 3.62 \text{ in})$, with screw brackets (they are supplied by the builder).







3 **PRINTING MODES**

3.1 On Line Report

The instrument prints and stores the events; once the acquisition time you have set with the parameter **Acq**. Time has passed, the instrument will print and store the values the probes will be reading as well.

The parameter **Off Line** must have value No.

3.2 Daily Report

The instrument stores the events; once the acquisition time you have set with the parameter Acq. Time has passed, the instrument will store the values the probes will be reading as well. The instrument will print the data it has stored at the time you have set with the parameter **Print Hour**⁽¹⁾.

The parameter **Off Line** must have value Yes and the parameter Print Hour must have values different from Off (2) .

(1) the instrument will print the data it has stored during the interval between two times you have set with the parameter Print Hour

(2) you can use the Daily Report and Historical Report printing modes at the same time

3.3 Historical Report

The instrument stores the events; once the acquisition time you have set with the parameter Acq. Time has passed, the instrument will store the values the probes will be reading as well. If you have to print the data the instrument has stored:

press $\overline{\mathbf{v}}$

the instrument will show Histor. Report? within 10 s 🔊 (3) .

press

The parameter Off Line must have value Yes [2]

- (2) you can use the Daily Report and Historical Report printing modes at the same time
- (3) if the parameter Remote Print has value Yes, you have to activate the input for remote print.

CONFIGURATION PARAMETERS 4

How to set the configuration parameters 4.1

Configuration parameters are arranged on two levels (you can

select them according to the password you use).

If you have to gain access the procedure:

press the instrument will

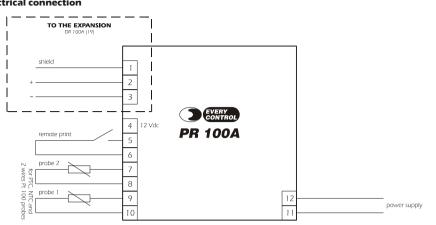
 press 	() and		the	instrument	will				
			show	/ <>					
If you have to gain access the "User" level									
press	() or	\bigcirc	for se	etting " -19 "					
press	() and	\bigcirc	the	instrument	will				
			show	Print Setu	p?				
lf you hav	ve to gain a	ccess the "Ir	nstaller" lev	rel					
press	() or	\bigcirc	for se	etting " 19 "					
press	() and	\bigcirc	the	instrument	will				
			show	Print Setu	p?				
lf you hav	e to select a	a paramete	r:						
 press 	() or	\bigcirc							
lf you hav	ve to modify	the value o	of the para	meter:					
press	() and	\bigcirc	the	instrument	will				
			show	/ <> and					
 press 	(A) or	\bigcirc	then						
 press 	() and	\bigcirc							
If you hav	ve to quit th	e procedure	e:						
 do not 	operate for	the time yo	ou have set	with the parar	neter				
Timeout	: Setup								
lf you mo	odify the val	ue of the p	arameter, 1	the modification	n will				
have effect as soon as you will quit the setting procedure.									
5 SI	GNALS								
5.1 Si	gnals								
L	ED		MEAN	ling					

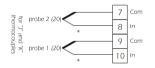
on/off	ON/OFF LED
	if it is lighted, the instrument will be in the ON mode
alarm	Alarm LED
	if it flashes, an alarm will be running
set	Set LED
	if it is lighted, the configuration parameters setting pro-
	cedure will be running
	if it flashes, the modification of the value of configura-
	tion parameters will be running
timer	Timer LED
	if it is lighted, the Daily Report printing mode will be
	running

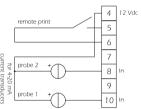
show password

9 ELECTRICAL CONNECTION

9.1 Electrical connection







(19) you have to connect the probes in succession (for example, if you are using three channels, you have to connect probe 1 and probe 2 with the data recorder PR 100A and

probe 3 with the expansion DR 100A); connect PR 100A with DR 100A by using a twisted pair

(20) provide the probe with a protection able to protect it against contacts with metal parts or use insulated probes.

INDI	CATION		MEANIN	G			
Prin	ting	the On	Line Report printing mod	de will be running			
Recor	ding	the Daily Report and/or Historical Report printing modes					
		will be running					
Memory 5	10% ••• 99%	the me	mory will be running out				
5 A	LARMS						
5.1 A	larms						
CODE	REASO	۷S	REMEDIES	EFFECTS			
AN16	• the kind of	probe	 look at the param- 	if the On Line Report			
Err	16 you ha	ve con-	eter AN1ь Туре	printing mode is run-			
probe	nected is not	right	• test the integrity of	ning, the instrument			
16	• the probe 1	.6 plays	the probe	will print and store the			
alarm	up		• test the instrument-	event; if the Daily Re-			
	• the connec	ion in-	probe connection	port and/or Historical			
	strument-pro	be 16	• test the value close	Report printing modes			
	is wrong		to the probe (it has	are running, the in-			
	• the value the	e probe	to be between the	strument will store the			
	16 is rea	ding is	limits allowed by the	event			
	outside the I	imits al-	working range)				
	lowed by th	e work-					
	ing range of	the in-					
	strument						
	• the value the	e probe					
	16 is rea	ding is					
	unstable (th	e value					
	has change	d more					
	than 1 degre	e/point					
	per 2 s for 8	times in					
	succession)						
AN16	the value the	probe	test the value close to	if the On Line Report			
AH	16 is reading	j is out-	the probe (look at the	printing mode is run-			
upper	side the limit ye	ou have	parameters AN1b	ning, the instrument			
alarm	set with the pa	rameter	Alarm Hystand	will print and store the			
probe	ANl6 Max	Alarm	ANL6 Max	event; if the Daily Re-			
16			Alarm)	port and/or Historical			
				Report printing modes			
				are running, the inst.			
				will store the event			

2/3

PR 100A - Sheet

itrol S.r.l. = 1

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Eveny

ANl6	the value the probe	test the value close to	if the On Line Report
AL	16 is reading is out-	the probe (look at the	printing mode is run-
lower	side the limit you have	parameters AN1 •••• L	ning, the instrument
alarm	set with the parameter	Alarm Hyst and	will print and store the
probe	ANl6 Min Alarm	ANL6 Min	event;
16		Alarm)	
			if the Daily Report
			and/or Historical Re-
			port printing modes
			are running, the in-
			strument will store the
			event
Memory	the memory has run	erase the data the in-	the instrument will
Full	out	strument has stored	not store any data
memory		(look at the parameters	
run out		Delete Memory?	
alarm		and Memory Type)	
7 ТЕ	CHNICAL DATA	`	
		•	
7.1 Te	chnical data	`	
		`	
Box: self-ext	chnical data		
Box: self-ext Size: 96 x 96	chnical data inguishing grey. 5 x 90 mm (3.77 x 3.77 y		52 x 3.62 in), with screw
Box: self-ext Size: 96 x 96 nstallatior	chnical data inguishing grey. 5 x 90 mm (3.77 x 3.77 y	x 3.54 in). I cut out 92 x 92 mm (3.6	52 x 3.62 in), with screw
Box: self-ext Size: 96 x 96 nstallation	echnical data inguishing grey. 6 x 90 mm (3.77 x 3.77 z 12 panel mounting, panel	x 3.54 in). I cut out 92 x 92 mm (3.6	52 x 3.62 in), with screw
Box: self-ext Size: 96 x 9 Installation prackets (the Frontal pro	echnical data inguishing grey. 5 x 90 mm (3.77 x 3.77 s e panel mounting, panel y are supplied by the bui otection: IP 30.	x 3.54 in). I cut out 92 x 92 mm (3.6	
Box: self-ext Size: 96 x 96 nstallation prackets (the Frontal pro	echnical data inguishing grey. 5 x 90 mm (3.77 x 3.77 s e panel mounting, panel y are supplied by the bui ptection: IP 30.	x 3.54 in). i cut out 92 x 92 mm (3.6 ider).	0.19 in] for cables up to
Box: self-ext Size: 96 x 97 Installation prackets (the Frontal pro- Connection 2.5 mm ² (0.3)	echnical data inguishing grey. 5 x 90 mm (3.77 x 3.77 s e panel mounting, panel y are supplied by the bui ptection: IP 30.	x 3.54 in). l cut out 92 x 92 mm (3.6 lider). plocks with pitch 5 mm (i nsion) and with pitch 7.5	0.19 in] for cables up to
Box: self-ext Size: 96 x 90 Installation Prontal pro Connection 2.5 mm ² (0.3 up to 2.5 mm	cchnical data inguishing grey. 5 x 90 mm (3.77 x 3.77 s panel mounting, panel y are supplied by the bui tection: IP 30. s: extractable terminal b 88 sq in, inputs and expai n ² (0.38 sq in, power sup	x 3.54 in). l cut out 92 x 92 mm (3.6 lider). plocks with pitch 5 mm (i nsion) and with pitch 7.5	0.19 in) for cables up to mm (0.29 in) for cables
Box: self-ext Size: 96 x 90 Installation Prontal pro Connection 2.5 mm ² (0.3 up to 2.5 mm	echnical data inguishing grey. 5 x 90 mm (3.77 x 3.77 s ar panel mounting, panel y are supplied by the bui stection: IP 30. as: extractable terminal b as: extractable terminal b as: extractable terminal b (0.38 sq in, inputs and expand) n ² (0.38 sq in, power sup supperature: from 0 to 5	x 3.54 in). i cut out 92 x 92 mm (3.6 ilder). plocks with pitch 5 mm (0 nsion) and with pitch 7.5 pply).	0.19 in) for cables up to mm (0.29 in) for cables
Box: self-ext Size: 96 x 9/ mstallation prackets (the Frontal pro- Connection 2.5 mm ² (0.3 up to 2.5 mr Ambient te without concerning	cchnical data inguishing grey. 5 x 90 mm (3.77 x 3.77 x panel mounting, panel y are supplied by the bui vtection: IP 30. se: extractable terminal b R8 sq in, inputs and expan n ² (0.38 sq in, power sup mperature: from 0 to 5 densate).	x 3.54 in). i cut out 92 x 92 mm (3.6 ilder). plocks with pitch 5 mm (0 nsion) and with pitch 7.5 pply).	0.19 in) for cables up to mm (0.29 in) for cables 90% of relative humidity
Box: self-ext Size: 96 x 9/ mstallation prackets (the Frontal pro- Connection 2.5 mm ² (0.3 up to 2.5 mr Ambient te without concerning	cchnical data inguishing grey. 5 x 90 mm (3.77 x 3.77 s compared mounting, panel y are supplied by the bui rection: IP 30. Its: extractable terminal b its: extractable t	x 3.54 in). I cut out 92 x 92 mm (3.6 Ider). Nocks with pitch 5 mm (f nsion) and with pitch 7.5 oply). IS °C (32 to 131 °F; 10	0.19 in) for cables up to mm (0.29 in) for cables 90% of relative humidity
Box: self-ext Size: 96 x 9/ Installation procedets (the Frontal pro- Connection 2.5 mm ² (0.3 up to 2.5 mm Ambient ter without conc Power sup by request).	echnical data inguishing grey. 5 x 90 mm (3.77 x 3.77 s ar panel mounting, panel y are supplied by the bui ytection: IP 30. as: extractable terminal b stection: IP 30. as: extractable terminal b stag in, inputs and expan n ² (0.38 sq in, power sup emperature: from 0 to 5 densate).	x 3.54 in). I cut out 92 x 92 mm (3.6 Ider). Nocks with pitch 5 mm (f nsion) and with pitch 7.5 oply). IS °C (32 to 131 °F; 10	0.19 in) for cables up to mm (0.29 in) for cables 90% of relative humidity 2-36 Vac/dc, 50/60 Hz

inputs (for example, if the acquisition time is 15 min, the capacity of memory will be 500 h that will be about 21 days).

Measure inputs: 2 (one can expand them up to 6 by using the expansion DR 100A) for PTC or NTC probes, "J" or "K" thermocouples, 2 wires Pt 100 probes, 4-20 mA current

transducers; the probes can be up to 15 m long (49.21 ft).

At terminal 4 there are 12 Vdc you can use in order to supply the transducers.

Digital inputs: 1 for remote print (NO contact) without voltage (it works with 5 mA).

Working range: from -45 to 150 °C (-49 to 302 °F) for PTC probe, from -20 to 110 °C

(-4 to 230 °F) for NTC probe, from -100 to 700 °C (-148 to 1,292 °F) for "J" thermocou-

ple (if the cold joint is at 0 °C), from -100 to 1,300 °C (-148 to 2,372 °F) for "K" thermo-

couple (if the cold joint is at 0 °C), from -100 to 600 °C (-148 to 1,112 °F) for 2 wires Pt 100 probe.

 $\textbf{Resolution:}~1~^\circ\text{F}$ with unit of measure in Fahrenheit, $1~^\circ\text{C}$ with unit of measure in

Celsius, 1% of relative humidity, 1 bar.

Display: one green LCD (2 lines per 16 characters) 11.5 mm (0.45 in) high, instrument

mode indicators.

Maximum size of the roll of paper: 58 x Ø 30 mm (2.28 x Ø 1.18 in).

Print width: 48 mm (1.88 in).

Dot number (for every line): 384.

Print density: 8 dot per mm.

АNЬ 4-20mA Тур	e	-		-	%RH 4-20 mA unit of measure (it is important if ANL Type = 4-20 mA;
					RH% = percentage of relative humidity, bar = bar, $^{\circ}C$ = Celsius degree,
					$^{\circ}$ F = Fahrenheit degree, Hz = hertz, mA = milliampere, - = dimensionless) ⁽¹⁷⁾
ANG 4-20mA Min	-99	999	points	0	minimum value of the range of the transducer 6 (it is important if
					ANL Type = 4-20 mA) (17)
AN6 4-20mA Max	-99	999	points	100	maximum value of the range of the transducer 6 (it is important if
					ANL Type = 420 mA ⁽¹⁷⁾
ANL dec. point	0	2	_	0	decimal point position (it is important if ANL Type = 4-20 mA;
					0 = it will never be showed, 1 = ten, 2 = hundred) ^{(17)}

(4) if the parameter has value Yes, the instrument will print the set up as soon as you will quit the configuration parameters setting procedure

(5) in order to activate the Daily Report printing mode, the parameter Off Line must have value Yes and the parameter Print Hour must have values different from Off; in order

to activate the Historical Report printing mode, the parameter Off Line must have value Yes

(6) as soon as you will quit the configuration parameters setting procedure, the parameter will automatically get value No

(7) if you modify the value of the parameter, this will erase the data the instrument has stored

(8) the unit of measure depends on the parameters AN1 Type, Celsius/Fahr • and AN1 4-20mA Type

(9) unless the parameter N · Probe has value 2, the parameter will not be showed

(10) the unit of measure depends on the parameters AN2 Type, Celsius/Fahr. and AN2 4-20mA Type

(11) unless the parameter N. Probe has value 3, the parameter will not be showed

(12) the unit of measure depends on the parameters AN3 Type, Celsius/Fahr. and AN3 4-20mA Type

(13) unless the parameter N. Probe has value 4, the parameter will not be showed

(14) the unit of measure depends on the parameters AN4 Type, Celsius/Fahr. and AN4 4-20mA Type

(15) unless the parameter N. Probe has value 5, the parameter will not be showed

(16) the unit of measure depends on the parameters AN5 Type, Celsius/Fahr + and AN5 4-20mA Type

(17) unless the parameter N. Probe has value 6, the parameter will not be showed

(15) the unit of measure depends on the parameters ANL Type, Celsius/Fahr. and ANL 4-20mA Type.

AN4 4-20mA Typ	e	-	-	-	%RH 4-20 mA unit of measure (it is important if AN4 Type = 4-20 mA;
					RH% = percentage of relative humidity, bar = bar, $^{\circ}C$ = Celsius degree,
					$^{\circ}$ F = Fahrenheit degree, Hz = hertz, mA = milliampere, - = dimensionless) ^[13]
AN4 4-20mA Min	-99	999	points	0	minimum value of the range of the transducer 4 (it is important if
					AN4 Type = 4-20 mAJ (13)
AN4 4-20mA Max	-99	999	points	100	maximum value of the range of the transducer 4 (it is important if
					AN4 Type = 4-20 mA) (13)
AN4 dec. point	0	2		0	decimal point position (it is important if $AN4$ Type = 4-20 mA;
					0 = it will never be showed, 1 = ten, 2 = hundred) $^{(13)}$

LABEL	MIN.	MAX.	U.M.	DEF.	MEASURE INPUT 5
AN5 Type		-	_	PTC	kind of probe 5 (PTC, TC J, TC K, NTC, 4-20mA, PT 100) ^[15]
AN5 Alarm Setup			_	No	kind of alarm (No = it will never be activated, AL = lower alarm,
					AH = upper alarm, AH & AL = both the upper alarm and the lower one) $^{(15)}$
AN5 Max Alarm	-99	999	(16)	70	upper alarm threshold (it is important if ANS Alarm Setup = AH or AH & AL) (15)
AN5 Min Alarm	-99	999	(16)	10	
AN5 Alarm Hyst	1	20	(16)	2	hysteresis (differential, it is relative to ANS Max Alarm and ANS Min Alarm,
					it is important if AN5 Alarm Setup ≠No) ⁽¹⁵⁾
AN5 Offset	-20	20	(16)	0	probe 5 calibration ⁽¹⁵⁾
AN5 4-20mA Type			_	%RH	4-20 mA unit of measure (it is important if $AN5$ Type = 4-20 mA;
					RH% = percentage of relative humidity, bar = bar, $^{\circ}C$ = Celsius degree,
					°F = Fahrenheit degree, Hz = hertz, mA = milliampere, - = dimensionless) ⁽¹⁵⁾
AN5 4-20mA Min	-99	999	points	0	minimum value of the range of the transducer 5 (it is important if
					AN5 Type = $4-20 \text{ mA}$ (15)
ANS 4-20mA Max	-99	999	points	100	maximum value of the range of the transducer 5 (it is important if
					AN5 Type = $4-20 \text{ mA}$ (15)
AN5 dec. point	0	2	_	0	decimal point position (it is important if $AN5$ Type = 4-20 mA;
					0 = it will never be showed, 1 = ten, 2 = hundred) $^{(15)}$

LABEL	MIN.	MAX.	U.M.	DEF.	MEASURE INPUT 6
ANL Type		_	-	PTC	kind of probe 6 (PTC, TC J, TC K, NTC, 4-20mA, PT 100) [17]
ANL Alarm Setup				No	kind of alarm (No = it will never be activated, AL = lower alarm,
					AH = upper alarm, AH & AL = both the upper alarm and the lower one) (17)
ANL Max Alarm	-99	999	(18)	70	upper alarm threshold (it is important if ANL Alarm Setup=AH or AH & AL) ^[17]
ANG Min Alarm	-99	999	(18)	10	lower alarm threshold (it is important if ANL Alarm Setup = AL or AH & AL) [17]
ANL Alarm Hyst	1	20	(18)	2	hysteresis (differential, it is relative to ANL Max Alarm and ANL Min Alarm,
					it is important if ANL Alarm Setup≠No) ⁽¹⁷⁾
ANL Offset	-20	20	(18)	0	probe 6 calibration (17)

8 CONFIGURATION PARAMETERS

8.1 "User" level parameters (password -19)					
LABEL	MIN.	MAX.	U.M.	DEF.	PASSWORD
Password	-99	99	—	0	password

LABEL	MIN.	MAX.	U.M.	DEF.	PRINT OF THE INSTRUMENT SET UP
Print Setup?	Yes	No	_	No	print of the instrument set up ⁽⁴⁾

LABEL	MIN.	MAX.	U.M.	DEF.	PRINTING MODE
Off Line	Yes	No	_	No	printing mode (Yes = Daily Report and Historical Report, No = On Line Report) (5)
Remote Print	Yes	No	_	No	enabling of the input for remote print during the Historical Report printing
					mode (it is important if 0ff Line = Yes)
Print Hour	Off	23	h	8	printing time by using the Daily Report printing mode (it is important if
					0 f f Line = Yes; Off = the instrument will never print the data)

8.2 "Installer" level parameters (password 19)

LABEL	MIN.	MAX.	U.M.	DEF.	PASSWORD
Password	-99	99	—	0	password

LABEL	MIN.	MAX.	U.M.	DEF.	PRINT OF THE INSTRUMENT SET UP
Print Setup?	Yes	No	_	No	print of the instrument set up (4)

LABEL	MIN.	MAX.	U.M.	DEF.	GENERIC SETTINGS
Celsius/Fahr.	°C	°F	—	°C	temperature unit of measure (it is important if AN1···· L Type ≠ 4-20 mA)
Acq. Time	1	360	min	15	acquisition time
Day Setup	1	31	day	1	real day
Month Setup	1	12	month	1	real month
Year Setup	1990	2050	year	2001	real year
Hour Setup	0	23	h	0	real hour
Min Setup	0	59	min	0	real minute

	LABEL	MIN.	MAX.	U.M.	DEF.	PRINTING MODE
'n	Off Line	Yes	No	-	No	printing mode (Yes = Daily Report and Historical Report, No = On Line Report) $^{(5)}$
ieet 3/	Remote Print	Yes	No	-	No	enabling of the Historical Report printing mode (it is important if
IA = SF						Off Line = Yes)
PR 100	Timeout Setup	5	100	s	10	time without you operate with the keys in order that the instrument can quit
• Trif.						the configuration parameters setting procedure
ontrol 5	Print Hour	Off	23	h	8	printing time by using the Daily Report printing mode (it is important if
very Co						Off Line = Yes; the instrument will never print the data)
Every Control S.r.I.	Print Hour	Off	23	h	8	printing time by using the Daily Report printing mode (it is importan

LABEL	MIN.	MAX.	U.M.	DEF.	erasing of the data the instrument has stored
Delete Memory?	Yes	No	-	No ⁽⁶⁾	erasing of the data the instrument has stored
Memory Type	0	1		0	data control when the memory has run out $(0 = \text{the instrument will not store})$
					any data, 1 = the instrument will erase the oldest data in order to store the
					new ones) ⁽⁷⁾
Delete Auto	Yes	No	-	No	erasing of the data the instrument has stored after you have printed them
					during the Historical Report printing mode
LABEL	MIN.	MAX.	U.M.	DEF.	MEASURE INPUTS NUMBER
N. Probe	1	6	-	2	measure inputs number
	1				
LABEL	MIN.	MAX.	U.M.	DEF.	MEASURE INPUT 1
ANL Type		-	_	PTC	kind of probe 1 (PTC, TC J, TC K, NTC, 4-20mA, PT 100)
ANL Alarm Setup		-		No	kind of alarm (No = it will never be activated, AL = lower alarm,
					AH = upper alarm, AH $\&$ AL = both the upper alarm and the lower one)
ANL Max Alarm	-99	999	(8)	70	upper alarm threshold (it is important if ANL Alarm Setup = AH or AH & AL)
ANL Min Alarm	-99	999	(8)	10	lower alarm threshold (it is important if ANL Alarm Setup = AL or AH & AL)
ANl Alarm Hyst	1	20	(8)	2	hysteresis (differential, it is relative to ANL Max Alarm and ANL Min Alarm,
					it is important if AN1 Alarm Setup ≠No)
ANL Offset	-20	20	(8)	0	probe 1 calibration
ANL 4-20mA Type		-	_	%RH	4-20 mA unit of measure (it is important if ANL Type = 4-20 mA;
					RH% = percentage of relative humidity, bar = bar, $^{\circ}C$ = Celsius degree,
					°F = Fahrenheit degree, Hz = hertz, mA = milliampere, - = dimensionless)
ANL 4-20mA Min	-99	999	points	0	minimum value of the range of the transducer 1 (it is important if
					AN1 Type = 4-20 mA)
ANL 4-20mA Max	-99	999	points	100	maximum value of the range of the transducer 1 (it is important if
					ANL Type = 4-20 mA)
ANL dec. point	0	2	_	0	decimal point position (it is important if $ANL Type = 4-20$ mA;
					0 = it will never be showed, $1 = ten$, $2 = hundred$)

LABEL	MIN.	MAX.	U.M.	DEF.	MEASURE INPUT 2
AN2 Type		—	—	PTC	kind of probe 2 (PTC, TC J, TC K, NTC, 4-20mA, PT 100) ⁽⁹⁾
AN2 Alarm Setup			_	No	kind of alarm (No = it will never be activated, AL = lower alarm,
					AH = upper alarm, AH & AL = both the upper alarm and the lower one) $^{(9)}$
AN2 Max Alarm	-99	999	(10)	70	upper alarm threshold (it is important if AN2 Alarm Setup=AH or AH & AL) ^[9]
AN2 Min Alarm	-99	999	(10)	10	lower alarm threshold (it is important if AN2 Alarm Setup = AL or AH & AL) ⁽⁹⁾
AN2 Alarm Hyst	1	20	(10)	2	hysteresis (differential, it is relative to AN2 Max Alarm and AN2 Min Alarm,
					it is important if AN2 Alarm Setup ≠NoJ ¹⁹
AN2 Offset	-20	20	(10)	0	probe 2 calibration ⁽⁹⁾

AN2 4-20mA Typ	e	-	-	-	%RH 4-20 mA unit of measure (it is important if AN2 Type = 4-20 mA;
					RH% = percentage of relative humidity, bar = bar, $^{\circ}C$ = Celsius degree,
					$^{\circ}$ F = Fahrenheit degree, Hz = hertz, mA = milliampere, - = dimensionless) $^{(9)}$
AN2 4-20mA Min	-99	999	points	0	minimum value of the range of the transducer 2 (it is important if
					AN2 Type = $4-20 \text{ mA}$ (9)
AN2 4-20mA Max	-99	999	points	100	maximum value of the range of the transducer 2 (it is important if
					AN2 Type = $4-20 \text{ mA}$ (9)
AN2 dec. point	0	2	_	0	decimal point position (it is important if $AN2$ Type = 4-20 mA;
					0 = it will never be showed, 1 = ten, 2 = hundred) ^[9]

LABEL	MIN.	MAX.	U.M.	DEF.	MEASURE INPUT 3
AN3 Type		-		PTC	kind of probe 3 (PTC, TC J, TC K, NTC, 4-20mA, PT 100) [11]
AN3 Alarm Setup		-	-	No	kind of alarm (No = it will never be activated, AL = lower alarm,
					AH = upper alarm, AH & AL = both the upper alarm and the lower one) (11)
AN3 Max Alarm	-99	999	(12)	70	upper alarm threshold (it is important if AN3 Alarm Setup=AH or AH & AL) (11)
AN3 Min Alarm	-99	999	(12)	10	lower alarm threshold (it is important if AN3 Alarm Setup = AL or AH & AL) (11)
AN3 Alarm Hyst	1	20	(12)	2	hysteresis (differential, it is relative to AN3 Max Alarm and AN3 Min Alarm,
					it is important if AN3 Alarm Setup≠No) (11)
AN3 Offset	-20	20	(12)	0	probe 3 calibration (11)
AN3 4-20mA Type			-	%RH	4-20 mA unit of measure (it is important if ANB Type = 4-20 mA;
					RH% = percentage of relative humidity, bar = bar, $^{\circ}C$ = Celsius degree,
					°F = Fahrenheit degree, Hz = hertz, mA = milliampere, - = dimensionless) ⁽¹¹⁾
AN3 4-20mA Min	-99	999	points	0	minimum value of the range of the transducer 3 (it is important if
					AN3 Type = 4-20 mA) (11)
AN3 4-20mA Max	-99	999	points	100	maximum value of the range of the transducer 3 (it is important if
					AN3 Type = 4-20 mA) (11)
AN3 dec. point	0	2	-	0	decimal point position (it is important if AN3 Type = 4-20 mA;
					$0 = it will never be showed, 1 = ten, 2 = hundred)^{(11)}$

LABEL	MIN.	MAX.	U.M.	DEF.	MEASURE INPUT 4
AN4 Type		-		PTC	kind of probe 4 (PTC, TC J, TC K, NTC, 4-20mA, PT 100) [13]
AN4 Alarm Setup		-	_	No	kind of alarm (No = it will never be activated, AL = lower alarm,
					AH = upper alarm, AH & AL = both the upper alarm and the lower one) $^{(13)}$
AN4 Max Alarm	-99	999	(14)	70	upper alarm threshold (it is important if AN4 Alarm Setup = AH or AH & AL) (13)
AN4 Min Alarm	-99	999	(14)	10	lower alarm threshold (it is important if AN4 Alarm Setup = AL or AH & AL) [13]
AN4 Alarm Hyst	1	20	(14)	2	hysteresis (differential, it is relative to AN4 Max Alarm and AN4 Min Alarm,
					it is important if AN4 Alarm Setup≠No) ⁽¹³⁾
AN4 Offset	-20	20	(14)	0	probe 4 calibration ⁽¹³⁾