TECHNICAL SPECIFICATIONS

CONVERCION

Configuration Differential asyimmetrica Specifications range

RANGE	RESOLUTION	INPUT IMP.	ACCURACY
±10V	1mV	1ΜΩ	±(0.1%L+3mV)
±60V	3mV	1ΜΩ	±(0.1%L+18mV)
±100mV	10μV	100ΜΩ	±(0.1%L+30µV)
±20mA	1μA	12.1Ω	±(0.1%L+6µA)

Max. input signal (±10V / ±60V)	±12V / ±60V
Max. input signal (±20mA / ±100mV)	±24mA / ±120mV
Max. continuous overload (±10V / ±60V)	80V / 80V
Max. continuous overload (±20mA)	50mA
Max. continuous overload (±100mV)	50V
Excitation	20V±5V DC @ 30mA
Temperature coefficient	100 ppm/°C
Warm-up time	15 minutes

CONVERSION	
Technique Sigma Del	ta
Resolution±15b	oit
Coversion rate	/s

DISPLAY	
Range	1999 / +9999, 4 digits 8mm
Decimal point	Programmable
LEDs	2 for functions and 2 for outputs
Display refresh rate	5/s
Display / input overrange indication	"-OuE", "OuE"
Polave refrech maximum and minimu	m value 10/c

RELAYS			
2 Relays SPST (included)	. 5A@250V	AC / 30V	DC
ANALOC OUTDUT (0/4 20mA)			

ANALOG OUTPUT (U/4-2UMA)	
Resolution	
Accuracy	±(0.3%L+40µA)
EMI max influence	±0.25mA
Temperature coefficient	3μA/°C
Maximum load	≤500Ω

POWER SUPPLY	
PICA10X-P	85-265 V AC / 100-300 V DC
PICA10X-P6	21-53 V AC / 10,5-70 V DC
Consumption (all models)	5W

FUSES (DIN 41661) (Not included)	
PICA10X-P F 0.2A / 2	50V
PICA10X-P6 F 1A / 2	50V
ETI TED D	

ITEIEKE		
Cutoff frequency		. 0.4Hz to 0.004Hz
Slope		20dB/Dec.
ENVIRONMENTA	CONDITIONS	
Operating tempe	rature	-10°C to +60°C

ENVIRONMENTAL CONDITIONS	
Operating temperature	10°C to +60°C
Storage temperature	25°C to +85°C
Relative humidity (non-condensing)	<95% @ 40°C
Maximum altitude	2000m
	IDCE

ויומגוווועווו מונ	utuue	2000III
Frontal prote	ection degree	IP65
DIMENSIONS	}	
Dimensions .		48x24x100mm
Panel cutout		45x22mm
Weiaht		100a

MAINTENANCE

Case material

Instrument repairs should only be carried out by the manufacturer or by its authorized partners. For frontal device cleaning, just wipe it with a damp cloth and neutral soap product. DO NOT USE SOLVENTS!.

..... Polycarbonate s/UL 94 V-0

WARRANTY

All products are warranted against defective material and workmanship for a period of 3 years from acquisition date. If a product appears to have a defect or fails during the normal use within warranty period, please contact the distributor from whom you purchased the product to be given proper instructions.

This warranty does not apply to defects resulting from action of the customer such as mishandling or improper interfacing. The liability under this warranty shall extend only to the repair of the instrument; no responsability is asumed by the manufacturer for any damage which may result from its use.

CONFORMITY DECLARATION

SPATN

Manufacturer: DITEL - Diseños y Tecnología S.A. Xarol, 8C P.I. Les Guixeres 08915 Badalona.

http://www.ditel.es/warranty



Declares, that the product: Name: Digital panel indicator PICA100-P/P6, PICA101-P/P6, PICA104-P/P6 Model:

Conforms with Directives: EMC 2004/108/CE LVD 2006/95/CF Applicable standards:

N 61326-1	Electrical equip	ment for measuren	nent, control
EN 61000-4-2	Electrostatic disch Air discharge 8kV	narge (ESD)	Criterion B
	Contact discharge	e 4kV	
EN 61000-4-3	Electromagnetic f	ields	Criterion A
EN 61000-4-4	Fast transients (b	urst)	Criterion B
	Power lines `	2 kV	
	Signal lines	1 kV	
EN 61000-4-5	Surge		Criterion B
	1 kV L to N		
	2 kV L, N to Earth	١	
	1 kV Signal lines	to Earth	
EN 61000-4-6	RF conducted into	erference	Criterion A
	3 Vrms		
EN 61000-4-11	Voltage dips:		
	0% V duri	ng 1 cycle	Criterion B
	40% V duri	ng 10/12 cycles	Criterion C
	70% V duri	ng 25/30 cycles	Criterion C
	Short interruption	IS:	
	0% V duri	ng 250/300 cycles	Criterion C
CISPR11	Emission limits		
	Clase B		

EN 61010-1	Safety requirements for electrical equipment
	for measurement, control and laboratory use.

General safety Overvoltage category II Pollution degree 2 Conductive pollution excluded Insulation type: Enclosure:

Power/signal/relays:

21 October 2013 Date: Signed: Alicia Alarcia Charge: Technical Director



Double

WARNING

To guarantee electromagnetic compatibility, the following guidelines should be kept in mind:

Power supply wires should be separatedly routed from signal wires and **never runned** in the same conduit.

Use shielded cable for signal wiring. Cables section should be ≥0.25mm²

INSTALLATION

To meet the requirements of EN 61010-1 standard, where the unit is permanently connected to main supply, its is obligatory to install a circuit breaking device easy reachable to the operator and clearly marked as the disconnecting device.

In the same way, a protective external fuse against overcurrents must be installed.



According to 2002/96/CE Directive, You cannot dispose of it at the end of its lifetime as unsorted municipal waste. You can give it back, without any cost, to the place where it was adquired to proceed to its controlled treatment and recycling.



You can extend this period up to 5 years from the product commissioning, only by fulfilling the corresponding form. Fill up the form in our website:





DISEÑOS Y TECNOLOGÍA, S.A. Xarol, 8-C P.I. Les Guixeres 08915 Badalona (Barcelona) - Spain. Tel. +34 933 394 758 Fax +34 934 903 145

Email: dtl@ditel.es; web: www.ditel.es



PICA100-P

INSTRUCTIONS MANUAL

Valid for P2.00 version or higher.



DESCRIPTION

48x24mm (1/32 DIN) fully programmable panel meter, easy to scale into desired engineering units directly by frontal keys or rear input signal value in teach mode (tEAc), with 4 x 8mm-high red LED digits, supply excitation for the transducer and TARE function incorporated, it is designed for measuring $\pm 10V$ and $\pm 20mA$ process signals. It also provides an up to ±60V DC voltage input and up to ±100mV DC shunt input which allows high current signals measurement. A multi-point scaling is also possible to define a linearisation by segments to control the volume of irregularly shaped tanks.

It provides two relays that allow this instrument not only to measure but also to be capable of controlling, regulating and detecting alarms for the mentioned signals.

Thanks to its RS4P (RS485) communication and analog ANAP options, it can be integrated to a measurement system providing information via MODBUS-RTU protocol or generating a 0/4-20mA signal respectively.

The indicator incorporates three keys located on the bottom of the frontal display to set all configuration parameters. It is also configurable by a PC using a specific software available on our website.

4-level brightness configuration is possible to adapt it to the light working conditions. Registers the minimum and maximum process values since its starting up or a resetting.

CONNECTORS DESCRIPTION

AC SUPPLY PIN 1 Phase · lo ˈ PIN 2 Neutral DC SUPPLY PIN 1 Negative PIN 2 Positive

SIGNAL INPUT AND EXCITATION



RS485 OUTPUT

CN3 PIN 1: B = TxD + / RxD +PIN 2: A = TxD-/RxD-**ANA OUTPUT** PIN 1: -PIN 2: +

RELAY 1 OUTPUT

PIN 2: N.O. Contact



RELAY 2 OUTPUT

PIN 1:) N.O. Contact PIN 2:

KEYBOARD

configuration.



KEY TOOLS FOR CABLE INSERTION

in the proper terminal while pushing the key insertion tool to open

(ENTER: Enters configuration and () ()

mode. In RUN mode sets TARE or clears it.

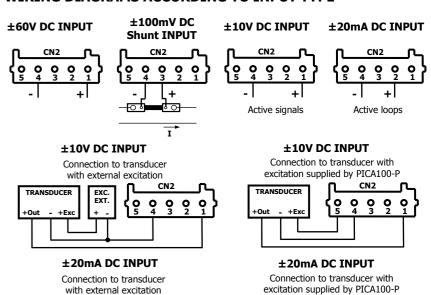
the clip inside the connector. Release the key to fix the wire.

広ろ

To perform wiring connections, strip de cable leaving from 7 to 10mm exposed to air, insert it

alidates data and parameters.

WIRING DIAGRAMS ACCORDING TO INPUT TYPE

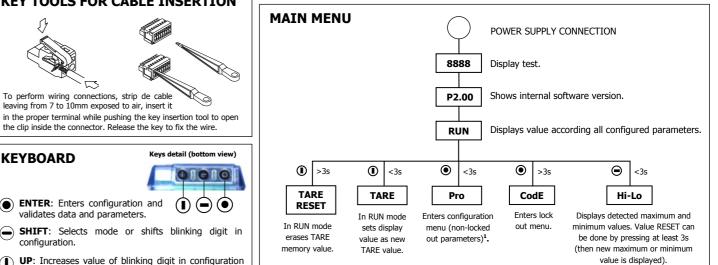


For other transducer connection types, do not forget to also join indicator common (CN2, pin 4) to the negative terminal from the external excitation if it is needed.

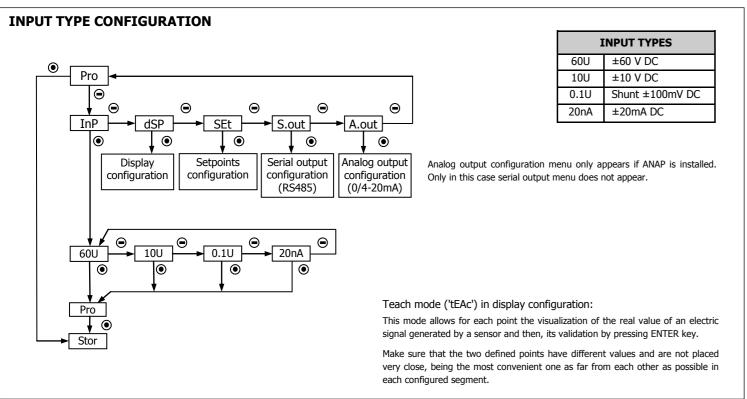
CN2

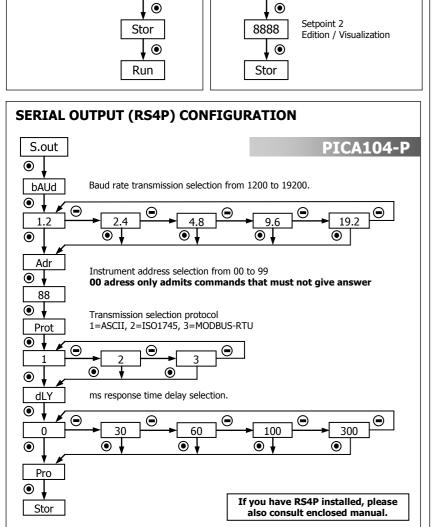
0 0 0 0 0

CN2



(1) If all parameters are locked out, display shows dAtA.





DIRECT ACCESS TO

SETPOINTS VALUE

1

Setpoint 1

Edition / Visualization

Pro

8888

RETURN TO DEFAULT

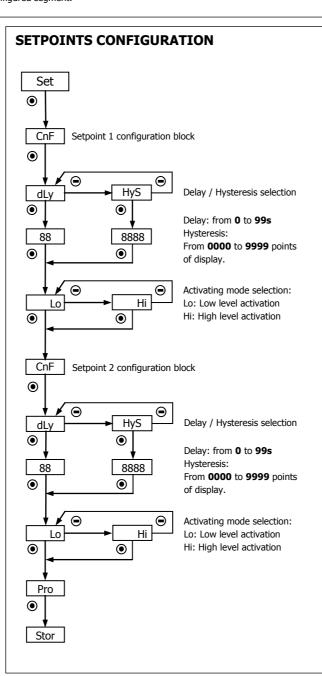
Pro

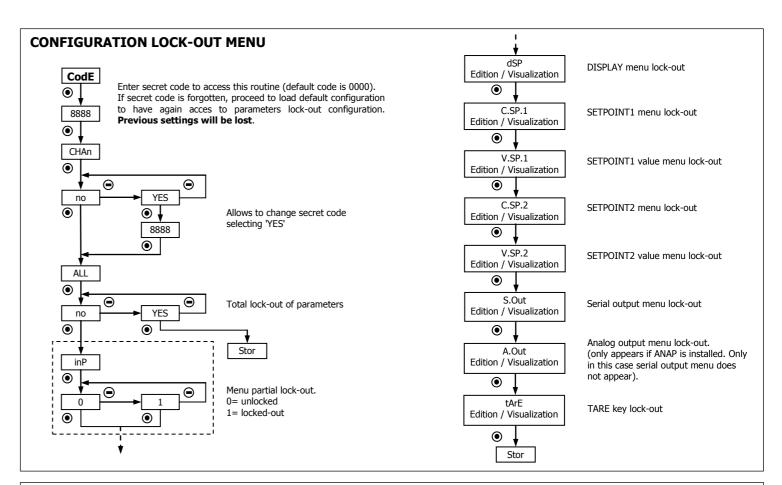
00

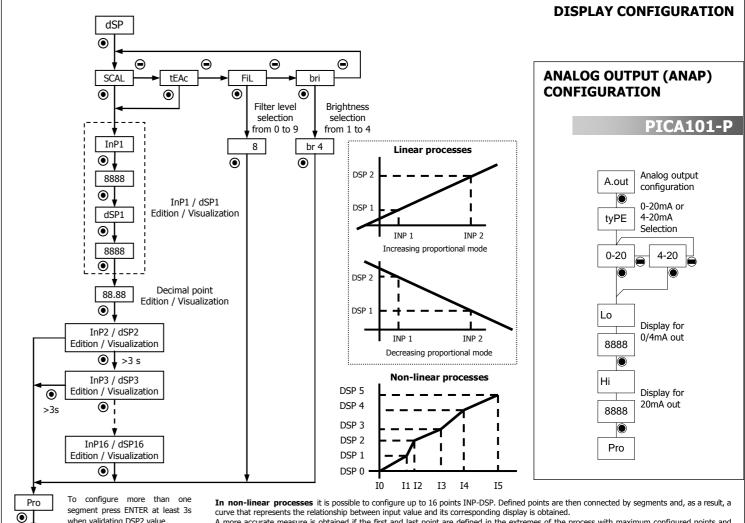
→ 3s

CONFIGURATION

Enter code 74







equal input values must be avoided.

the input/display ratio is the same as defined for the last two points of the curve.

A more accurate measure is obtained if the first and last point are defined in the extremes of the process with maximum configured points and

Input values must be always configured in an increasing or a decreasing order. Assigning two different display values to two

Display values can be configured in any order or even be repeated for differents inputs.

Below the first configured point the input/display ratio is the same as defined for the first two points of the curve. Above the last configured point

when validating DSP2 value.

desired display (DSPn) value.

Once all desired segments are

configured, press again ENTER at

least 3s when validating the last

Stor