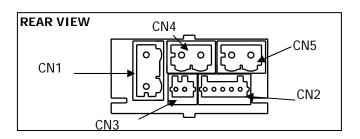
PICA100-F INSTRUCTIONS MANUAL



Panel Instrument for measuring frequencies, velocities in r.p.m. or lineal totally programmable.

Sensor excitation supply, selectable via programming

N.O.



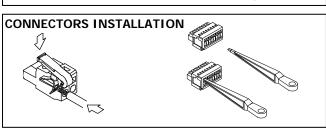
CONNECTORS DESCRIPTION

CN1 AC SUPPLY PIN 1 Phase 0]1 PIN 2 Neutral CN1 DC SUPPLY 0 PIN 1 Negative PIN 2 Positive CN3 SALIDA RS485 PIN 1 B = TxD + / RxD +PIN 2 A = TxD- / RxD-

CN4 RELAY 1 OUTPUT CN5 RELAY 2 OUTPUT PIN 1 N.O. PIN 2 PIN 2

PIN 1: 10 to 600 V ac SIGNAL PIN 2: Not connected PIN 3: + Input Pulses PIN 4: - Common (00000 PIN 5: + Excitation (5, 8, 12 V) @ 60 mA





WARNING: If these instructions are not respected, protection against overtension is not guaranteed.

In order to guarantee electromagnetic compatibility, the following guidelines for cable wiring must be followed:

Power supply wires must be routed separated from signal wires. Never run power and signal wires in the same conduit.

Use shielded cable for signal wiring and connect the shield to ground. The cable section must be ≥0.25 mm²

INSTALLATION

To meet the requirements of the directive EN61010-1, where the unit is permanently connected to the mains supply it is obligatory to install a circuit breaking device easy reachable to the operator and clearly marked as the disconnect device

CLEANING: The frontal cover should be cleaned only with a soft cloth soaked in neutral soap product. DO NOT USE SOLVENTS

DESCRIPTION

The PICA100-F, instrument of the KOSMOS Series, size 1/32 DIN with 4 digits LED red 8 mm high.

Its two mounted relays allows this instrument not only to measure but also to control, regulate and detect alarms for the mentioned signals.

Thanks to its communication option RS4P (RS485) it can be integrated within a measurement system and is able to provide information via its MODBUS-RTU

Tachometer in mode TAC programming only the number of pulses by revolution or in mode Rate programming only the rate Frequency / Display (in desired

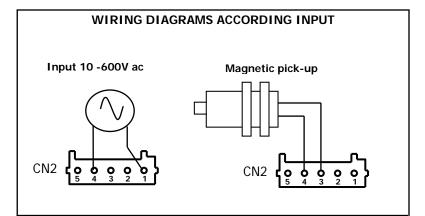
Incorporates three keys located on the front bottom for the configuration of all the parameters.

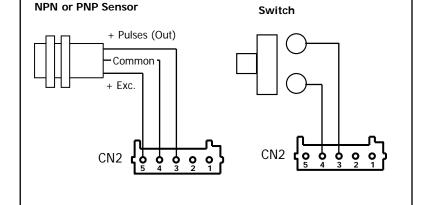
Its brightness level is programmable with 4 levels in order to adapt it to the environment where it works. Registers the minimum and maximum value.

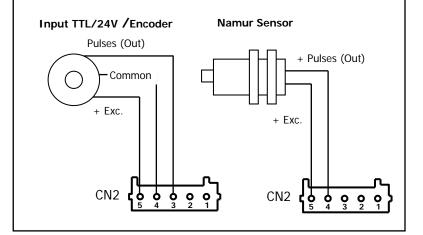
Menu allows total or partial lock-out of programming thanks to a code.

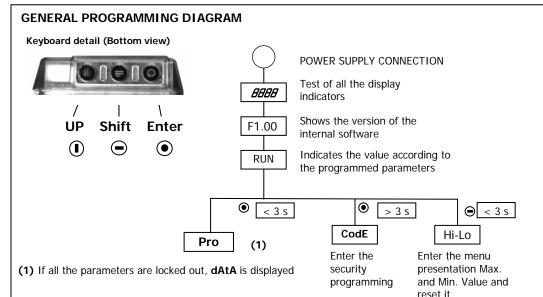
Anti-rebound filter incorporated automatically when programming switch input.

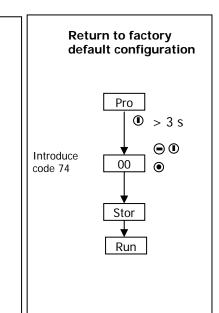
The output options are isolated from the input and the power supply.





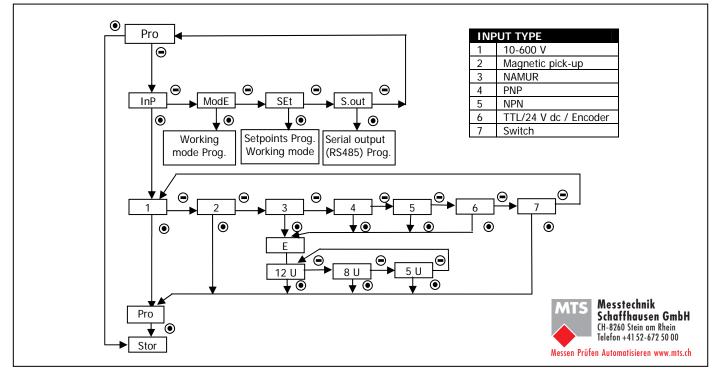


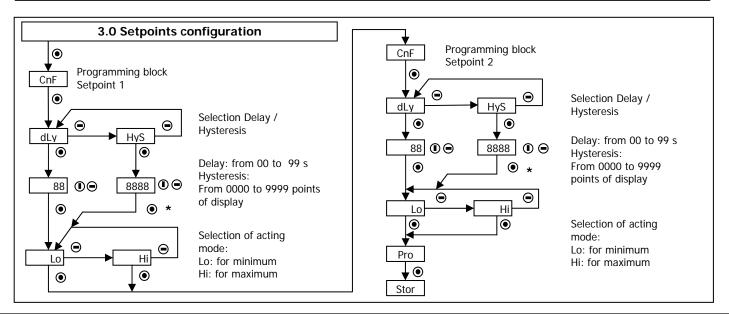


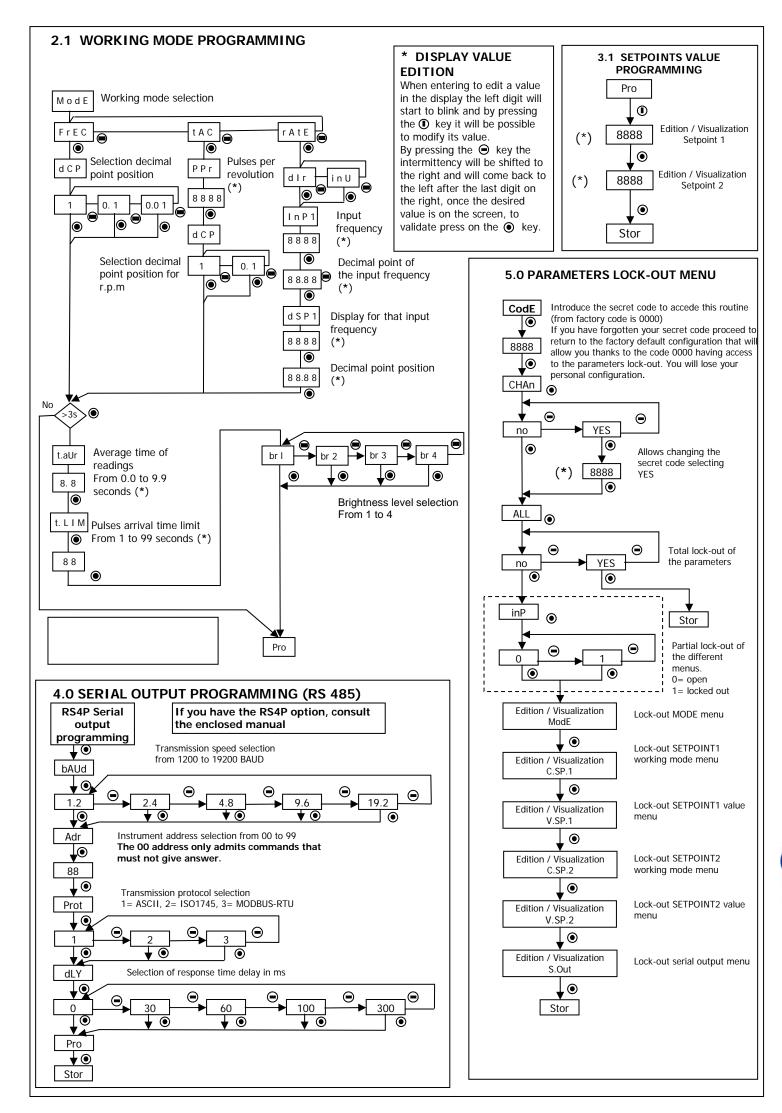


PROGRAMMING MENU DETAILS

1.0 INPUT TYPE PROGRAMMING







TECHNICAL CDECIFICATIONS

INPUT		
Vin > 300 mV eff. (6kHz)		
NAMUR Sensor • Rc1.5 kΩ		
• I on< 1 mA		
• I off > 3 mA NPN and PNP Sensors		
• Rc (NPN) 3k9 Ω, (PNP) 1k5 Ω		
Logical levels"0" < 2.4 V, "1" > 2.6 V dc TTL/24 V dc (encoder)		
Logical levels"0" < 2.4 V, "1" > 2.6 V dc Switch		
Vc5 V (internal)		
 Rc3,9 kΩ (included) Fc20 Hz (automatically connected when selected switch input) (Ton, Toff > 25 ms) 		
ACCURACY @ 25 °C ±3.0 °C Max. Error		
DISPLAY		
 Principal		
• LEDs		
Display rate		
Display over range		
RELAYS 2 Relays SPST (mounted) 5 A @ 250 Vac /30 Vdc		
POWER SUPPLY		
 PICA100-F		
• Consumption		
FUSES (DIN 41661) – Not supplied • PICA100-F F 0.2 A / 250 V		
• PICA100-F6F 1 A / 250 V		
ENVIRONMENTAL		
Operating Temperature10 °C to +60 °C Storage Temperature25 °C to +85 °C		
Relative humidity non condensed< < 95 % to 40 °C		
Max. altitude		
DIMENSIONS		
• Dimensions		
• Panel cutout		
Case material polycarbonate s/UL 94 V-0		

DECLARATION OF CONFORMITY

Manufacturer: DITEL - Diseños y Tecnología S.A. Adress: Polígono Industrial Les Guixeres



08915 BADALONA-SPAIN Declares, that the product:

> Description: Digital panel meter multifunction Model: PICA100-F

Conforms with the directives: EMC 89/336/CEE

LVD 73/23/CEE

EN 61000-6-2 EN 61000-4-2	Generic immunity Electrostatic discharge Air discharge 8kV Contact discharge 4kV	Criteria B
EN 61000-4-3	Electromagnetic fields RF 10V/m	Criteria A

EN 61000-4-4 Fast transients Criteria B Power supply Lines 2 kV Signal Lines

Surge EN 61000-4-5 Criteria B AC 1 kV L/N 0,5 kV

2 kV L,N/Ground 0,5 kV 1 kV Signal Lines and ground EN 61000-4-6 RF conducted interferences

Generic emission

10 V rms EN 61000-4-11 Voltage dips and interruptions

30% reduction 0.5 period Criteria B 66% reduction 5 per. y 50 per Criteria C

Criteria A

EN 55022/ CISPR22

EN 61010-1 General safety Installation category II

Pollution degree 2 Conductive pollution excluded Insulation type

Enclosure: Double Inputs/Outputs: Basic

Date: 26-10-2007 Signed: José Manuel Edo Function: Technical Manager

EN 61000-6-3



In order to guarantee the technical specifications of the instrument it is recommendable to check its calibration on a regular basis to be defined in accordance with the ISO9001 norms and the criteria of use of each application. The instrument calibration will have to be done by an accredited laboratory or directly by the manufacturer.

This manual does not represent a contractual commitment. All the information included in this manual can be modified without notice.



The instruments are warranted against defective materials and workmanship for a period of three years from date of delivery.

If a product appears to have a defect or fails during the normal use within the warranty period, please contact the distributor from which you purchased the product

This warranty does not apply to defects resulting from action of the buyer such as mishandling or improper interfacing.

The liability under this warranty shall extend only to the repair of the instrument. No responsibility is assumed by the manufacturer for any damage which may result from its use.



DISEÑOS Y TECNOLOGIA, S.A.

Polígono Industrial Les Guixeres C/ Xarol 8 C 08915 BADALONA-SPAIN Tel: +34 - 93 339 47 58 Fax: +34 - 93 490 31 45 E-mail: dtl@ditel.es www.ditel.es

All the DITEL products benefit from an unlimited and unconditional warranty of THREE (3) years from the date of their purchase. Now you can extend this period of warranty up to FIVE (5) years from the product commissioning, only by fulfilling the corresponding form.

Fill up the form in our website at http://www.ditel.es/warranty



