

INSTRUCTIONS MANUAL

Valid for P2.00 version or higher.



DESCRIPTION

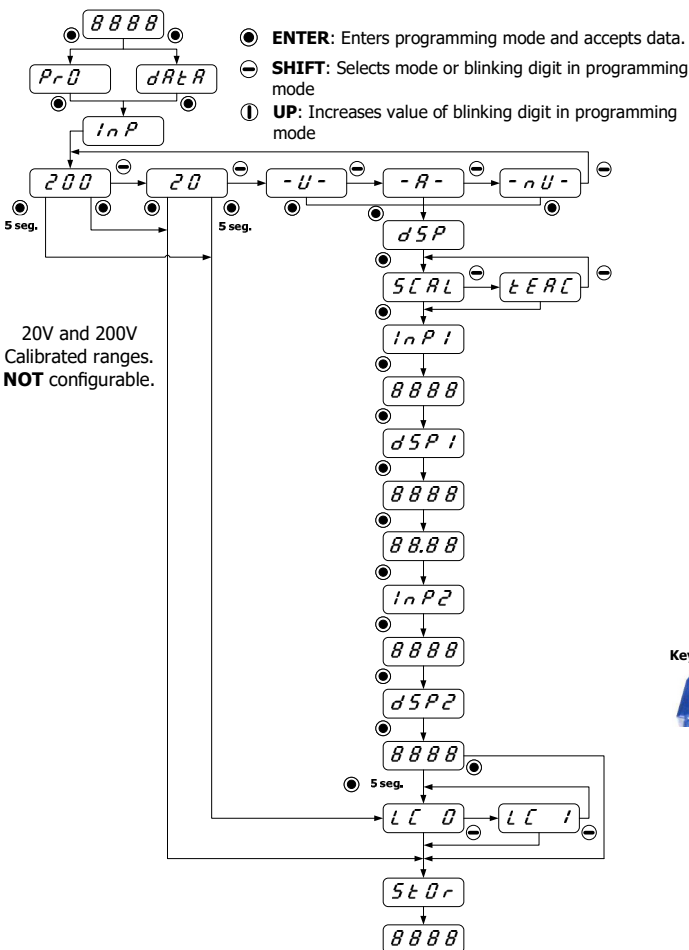
INDICATOR for:
 - PROCESS (±10V, ±20mA)
 - VOLTS DC ±(200.0V and 20.00V)
 - AMPERES DC (external shunt)
 - mV (±100mV)

48 x 24 mm frontal

Fully programmable panel meter for **volts, mA and mV DC** measurement.
 -1999 ÷ 9999 display range and configurable decimal point.
 Controlled by three keys situated on the bottom of the frontal display.

CONFIGURATION

Display range: Input $\pm(10V)$ $\pm(20mA)$ -1999 ÷ 9999
 Display range: Input $\pm(50/60/100mV DC)$ -1999 ÷ 9999
 Display range: Input 200 V DC calibrated range -199.9 ÷ 199.9
 Display range: Input 20 V DC calibrated range -19.99 ÷ 19.99



SCAL: Programming method introducing **InP1** and **InP2** values by keyboard.
tEAC: Programming method where instrument reads **InP1** and **InP2** real values.
InP1, InP2: Input signal values corresponding to desired display **dSP1** and **dSP2**.
dSP1: Display value corresponding to **InP1**.
dSP2: Display value corresponding to **InP2**.
LC 0: Configuration unlocked.
LC 1: Configuration totally locked. (All parameters are shown as **dAtA**).

WARRANTY

All products are warranted against defective material and workmanship for a period of three 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 responsibility is assumed by the manufacturer for any damage which may result from its use.

TECHNICAL SPECIFICATIONS

INPUT	VOLTAGE		CURRENT	
Range	$\pm 200V$	$\pm 20V$	$\pm 10V$	$\pm 100mA$
Resolution	0.1V	0.01V	1mV	0.01mA

INPUT IMPEDANCE
 Volts 1MΩ
 mV 100MΩ
 mA 20Ω

ACCURACY at 23°C ±5°C
 Maximum error ±(0.1% of reading + 3 digits)
 Temperature coefficient 100 ppm/°C
 Warm-up time 5 minutes

POWER SUPPLY AND FUSES (DIN 41661, not included)
μDIGI 1-P1: 85-265V AC 50/60 Hz and 100-300V DC F 0.1A/ 250V
μDIGI 1-P2: 21-53V AC 50/60Hz and 10.5-70V DC F 0.5A/ 250V
 Power consumption 1.8W

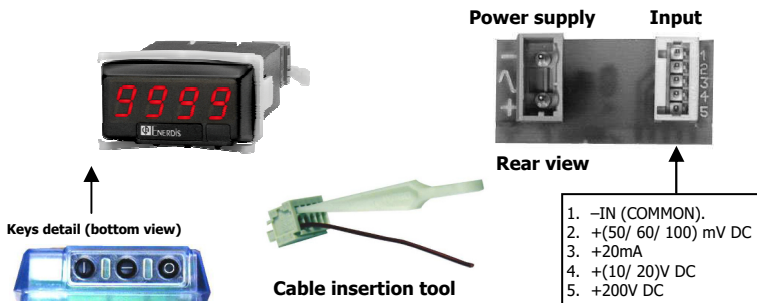
CONVERSION
 Technique Sigma-Delta
 Resolution ±15 bits
 Conversion rate 20/s

DISPLAY
 Range -1999 ÷ 9999
 Type 4 red digits 10mm
 Display refresh rate 4/s
 Display/input overrange indication \overline{OL}

ENVIRONMENTAL CONDITIONS
 Operating temperature -10°C ÷ +60°C
 Storage temperature -25°C ÷ +85°C
 Relative humidity (non condensing) <95% ÷ 40°C
 Maximum altitude 2000m
 Frontal protection degree IP65

INSTALLATION AND CONNECTIONS

DIMENSIONS
 Dimensions 48 x 24 x 70 mm.
 Panel cutout 45 x 22 mm.
 Weight 60g.
 Case material Polycarbonate s/ UL 94 V-0



WARNING
 In order to guarantee electromagnetic compatibility, the following guidelines for cable wiring must be followed:
 Power supply wires must be separated from signal wires. **Never** run power and signal wires in the same conduit.
 Use shielded cable for signal wiring and connect shield to ground.
 Cable section must be $\geq 0.25mm^2$

INSTALLATION
 Where the unit is permanently connected to the main supply and to meet the requirements of EN61010-1 Directive, it is obligatory to install a circuit breaker device easy reachable to the operator and clearly marked as a protection device.
CLEANING: Frontal cover should be cleaned only with a soft cloth soaked in neutral soap product. **DO NOT USE SOLVENTS.**

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