PICA100-P

DESCRIPTION

PICA100-P, instrument of the KOSMOS series, size 1/32 DIN with 4 digits LED red 8 mm high, designed for measuring process signals in range from 0 to 10 V, 0 to 20 mA, 4 to 20 mA with power supply for the transducer incorporated, easily scalable in engineering units, via keyboard or field signal.

Incorporates others inputs, from 0 to 60 Vdc that allows voltages measurements like batteries of 12, 24 or 48 V and from 0 to 100 mV adequate for connection with Shunts of 50, 60 or 100 mV that allows measurements of tensions up to ± 2000 A. Its two supply ranges makes it useful for industrial applications like installations with batteries. For this reason, it is very useful equipment for nautical applications especially for measurement and control of batteries or tanks of irregular shape thanks to the linearization of ramps option incorporated on this instrument.

Its two mounted relays allows this instrument not only to measure but also to be able to control, regulate and detect alarms for the mentioned signals.
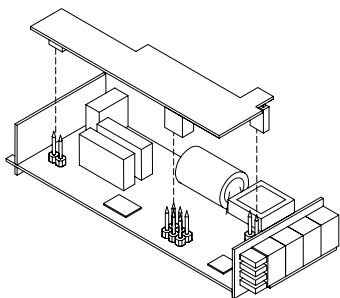
Tanks to its communication option RS4P (RS485) it can be integrated within a measurement system and is able to provide information via its MODBUS-RTU protocol, and can be totally configured by PC with a free el software available in www.ditel.es

Incorporates three keys located on the font 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 process value since its commissioning or resetting. Offers the possibility to make a tare (display value absorption) that can be locked out at any time.
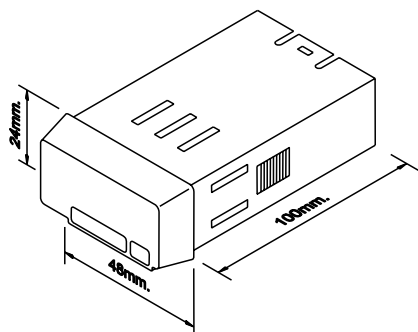
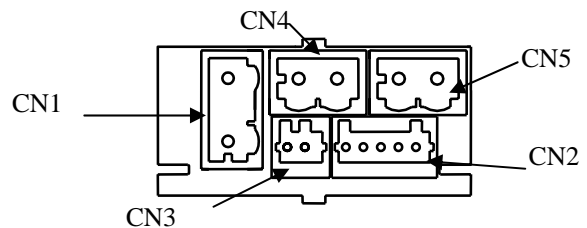The output options are isolated from the input and the power supply.

STRUCTURE

SIZE

- Dimensions .... 48 x 24 X 100 mm
- Panel cut out .... 45 X 22 mm

CONNECTIONS

REAR VIEW

CN1	POWER SUPPLY	
PIN	AC VERSION	DC VERSION
1	AC Phase	+VDC
2	AC Neutre	- VDC

CN2	INPUT SIGNAL		
	PROC.	VOLT	mV
1	+ 10 V	+ 60 V	
2	+ mA		
3			+ mV (Shunt)
4	- Signal / - Exc.		
5	+ Exc. (20 V)		

CN3	OUTPUT RS 485
1	TxD+/ RxD +
2	TxD- / RxD -
CN4	RELAIS 1
1	SPST N.O.
2	
CN5	RELAIS 2
1	SPST N.O.
2	

PICA100-P

TECHNICAL SPECIFICATIONS

INPUT SIGNAL
- Configuration .... asymmetric differential

Process input

	Voltage	Current
Voltage	±10 V DC	±20 mA DC
Resolution max.	1 mV	1 µA
Input impedance	1 MΩ	12,1 Ω
Excitation	20 V± 5 V @ 30 mA	
Error max	± (0.1% of the reading +1 digit)	

Volts / milivolts input

	Voltage		
Voltage	±60 V,	±10 V,	±100 mV
Resolution max	10 mV,	10 mV,	0,1 mV
Input impedance	1 MΩ,	1 MΩ,	100 MΩ
Error max	± (0.1% of the reading +1 digit)		

MAX applicable input signal
- Process mA .... ±24 mA
- Process V .... ±12 V
- Volts .... 60 V

MAX. continuous Overload 60 V, 10 V inputs .... 80 V
MAX. continuous Overload mV input .... 50 V
MAX. continuous Overload V mA input .... 50 mA

DISPLAY
- Principal .... -1999/ +9999, 4 digits 8 mm
- Decimal point .... programmable
- LEDs .... 2 for functions and 2 for outputs
- Display rate .... 5/ s
- Overflow indication .... -ouE ouE

CONVERSION
- Technique .... Sigma/ Delta
- Resolution .... (±15 bit)
- Rate 25/s

- Temperature coefficient .... 100 ppm/ °C
- Warm up time .... 15 minutes

RELAYS
- 2 SPST Relays (included) .... 5 A @ 250 Vac /30 Vdc

POWER SUPPLY
- PICA100-P ...... 85 VAC – 265 VAC / 100 VDC – 300 VDC
- PICA100-P6 .... 21 VAC – 53 VAC / 10,5 VDC – 70 VDC

FUSES (DIN 41661) - Not included
- PICA100-P .... F 0.2 A / 250 V
- PICA100-P6 .... F 1 A / 250 V

FILTER P
- Cut—off frequency .... 0.4 Hz to 0.004 Hz
- Slope .... 20 dB/decade

ENVIRONMENTAL
- Operating temperature .... -10 °C to +60 °C
- Storage temperature .... -25 °C to +85 °C
- Relative humidity non condensed .... <95 % @ 40 °C
- Max. altitude .... 2000 meters
- Sealed front panel IP65

DIMENSIONS
- Dimensions .... 48 x 24 X 100 mm
- Panel cut out .... 45 X 22 mm
- Weight .... 100 g
- Case material .... polycarbonate s/UL 94 V-0

PICA100-P / PICA100-P6 can be supplied with the RS4P option assembled.

ORDERING REFERENCES

- Universal power supply **PICA100-P**
- Universal power supply + RS4P **PICA104-P**
- Low voltage power supply **PICA100-P6**
- Low voltage power supply + RS4P **PICA104-P6**