

IN ONE INSTRUMENT MULTIPLE POSSIBILITIES

MAIN FEATURES

- It can operate as indicator, PID Controller or Datalogger
- Keyboard Display in Hi Definition Liquid Crystal (LCD)
- Great diversity in input and output options
- Easy Programming
- Size 1/4 DIN

DESCRIPTION

The universal indicator TS2002 indicates and registers processes variables as its main function.

The analog inputs are universal; power is 24 V for the transmission connections. This sensor equipped with signal boards can connect directly with sensors with low level outputs.

Parameters are stored in non-volatile memory. The keyboard display in liquid crystal allows user customized configuration.

Through serial port RS232 it can be connected to a PC for reading of stored data and settings with restricted code access.

Its versatility allows working as a control unit connected to SCADA systems for control and data acquisition in PC, through Modbus protocol.

In its different configurations TS 2002, can operate in different forms with the following options:



INDICATOR

- ✓ Simultaneous or alternative visualization of measured variables
- ✓ Average variable values calculation for a more stable indication
- ✓ Variable control using maxima and minima independent for each variable, set through the keyboard for protection and alarm functions of the plant.
- ✓ Two logical control outputs, dry contact NC-C-NA configurable.

CONTROLLER

- ✓ PID controller with analog output to control system by application of internal algorithm

DATALOGGER

Registers in memory bank with real time clock that allows for data storage during prefixed time periods (execution interval). Data transmission through Serial Port RS232 to PC or network.

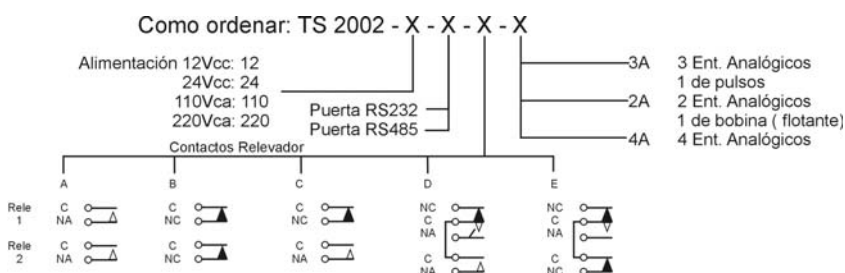
THECNICAL SPECIFICATIONS

Basado en Microcontrolador: CMOS, arquitectura RISC	
Graphic Display in Liquid Cristal (LCD)	128 x 64 pixels graphic design with contrast control and backlight on/off keyboard control
Front Panel	Built in policarbonate for industrial environments
Analog Inputs	Four, 0-5Vdc (i.e.: low level power consumption sensors), 4-20 mA (i.e.: pressure or temperature transmisors or transmisores), or high frequency pulse (i.e.: caudalímetros a rotor, anemómetros etc). Expandable options for sensors input.
Outputs:	1 analog output for control link
Analog / Digital Conversor:	10 bits standard mode expandable to 16 bits Multipliers and offset parameters allow conversion of linear signals into engineering units. Input setting from the keyboard
Memory:	Non volatile Flash Memory 1Mbit (128Kbytes) for data storage
Real Time Clock:	Optional, required for datalogger operation
Serial Port:	RS232, with standard protocol "Modbus" for data retrieval and equipment setting. The serial port can also respond to RS485 standar
Dimensions:	Front: 100 x 100 mm.; Depth: 136 mm.; Height: 92 x 92 mm (+ 0,8 – 0,0)

PARTS AND ACCESORIES:

TP 800: Controller Algorithm PID
TP 810: Reading and Setting Program
AS 4310: 16 bits Conversor de 16 bits
AS 4312: RTR datalogger memory
AS 4314: PT 100 Input

AS 4316: Temperarture Input
AS 4320: pH sensor Input
AS 4322: Conductivity sensor Input
AS 4324: LVDT (SD3 sensor) Input
AS 4325: 16 bits Conversor



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