

X5

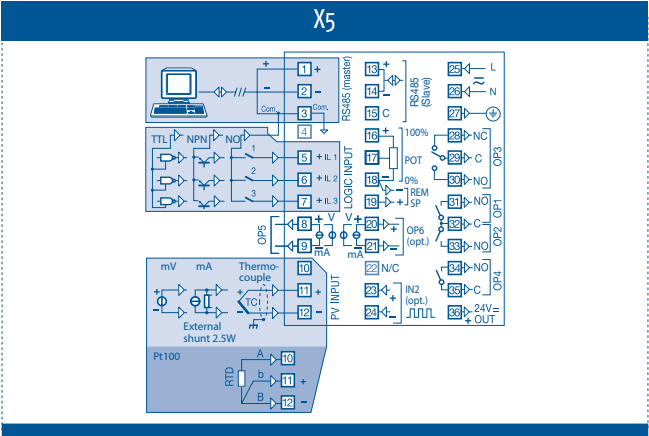
- CONTROLLER WITH PROFIBUS DP
- UP TO 6 OUTPUTS: 2 ANALOGUE OUTPUTS AND 4 SET POINTS
- PROGRAMMER AND MATHEMATICAL PACKAGE



FEATURES

DISPLAY	X5
Triple	Main display (PV): 4 green digit, h 12 mm Secondary display (SP): 4 green digit, h 7 mm Third display (OUT): 4 green digit, h 7 mm
INPUTS	
Universal	Thermocouples: U/I/E (0... +600°C / 32... +1112°F), T (-200... +400°C / -328... +752°F), K/N (0... +1200°C / 32... +2192°F), S/R (0... +1600°C / 32... 2912°F), B (0... 1800°C / 32... 3272°F), W3/W5 (0... 2000°C / 32... 3632°F) Thermoresistances: PT100 connection with 2 or 3 wires (-200... +600°C / -328... +1112°F) Linear signals: 0/4...20 mA, 0... 50mV/0... 300mV, 0/1... 5V/0... 10V - Engineering units with or without decimal and square root extraction Infrared sensors or special ranges (custom)
Frequency	0...2000 Hz, 0...20000 Hz;
Auxiliary inputs	Remote Set Point not isolated (accuracy 0.1%) Current 0/4...20 mA Voltage 0/1... 5V/0... 10V
Digital inputs	Potentiometer position feedback measurement 3 for voltage contacts
OUTPUTS	
Up to 6	OUT 1 and OUT 2: Relay NO, 2A/250Vac or Triac, 1A/250Vac, for resistive loads OUT 3: Relay SPDT, 2A/250Vac for resistive loads OUT 4: Relay NO, 2A/250Vac for resistive loads OUT 5 and OUT6: current: 0/4...20mA max. 750Ω/10V max. / voltage: 0...1/5/10V 500Ω / 20mA max. or 0/24Vdc ±10% - 30mA max. to drive SSR
Auxiliary power supply	+24DC ±20% 30mA max. - for external transmitter
Alarms	Up to 4 alarms programmable as high/low, band alarm, deviation, Loop Break, Sensor Break
FUNCTIONAL	
Control	PID, ON/OFF single or double action, Split range
PID functions	PID H/C control, Dead band, overshoot control, manual reset, cycle time, high and low limits, max. control output speed rate, Soft-start, safety output, forcing output, Fuzzy Tuning, Adaptive Tuning
Servomotor control	PID algorithm for 3 position Servomotor: Increase/Stop/Decrease according to: motor travel time, motor minimum step, Potentiometer
Set Point	Local + 3 stored Set points, only Remote, Local and Remote, Local with trim, Remote with trim, programmable (Remote Set Point mutually exclusive with frequency input)
Program	4 programs, 16 segments, 1... 9999 cycles or continuous cycling (OFF)
Auto/Man station	Integrated, Bumpless operated from keyboard, digital inputs and serial communication
Signal retransmission	Measuring or Set Point retransmission
Serial communication	Isolated RS485 with ModBus-RTU (JBUS) protocol MASTER and SLAVE - RS 485 asynchronous/isolated, PROFIBUS DP protocol
Baud rate	RS 485 (MASTER or SLAVE) Up to 19.200 bit/s; PROFIBUS DP Up to 12Mb/s max. distance 100m (12Mb/s)
GENERAL	
Power supply	100... 240 Vac (-15...+10%) or 24Vac (-25...+12%) and 24Vdc (-15...+25%) (50/60Hz)
Power consumption	5VA max.
Dimensions / Weight	48 x 96 mm (1/8 DIN), depth 110 mm / 250 g approx.
Mounting	Flush in panel in 45 x 92 mm hole
Connections	Screw terminal block M3 for cables with section 1 mm² (18AWG)
Front protection degree	IP65
Operating / storage temperature	0... 50°C (32... 122°F) / -20... +70°C (-4... 158°F)
Operating humidity	5... 95% RH without condensation
Conformity	EN 61010-1

CONNECTIONS



DIMENSIONS

