

M5

- PROCESS CONTROLLER
- ANALOGUE CONTROL OUTPUT OR SERVOMOTOR OUTPUT
- 16 SEGMENTS PROGRAMMER



FEATURES

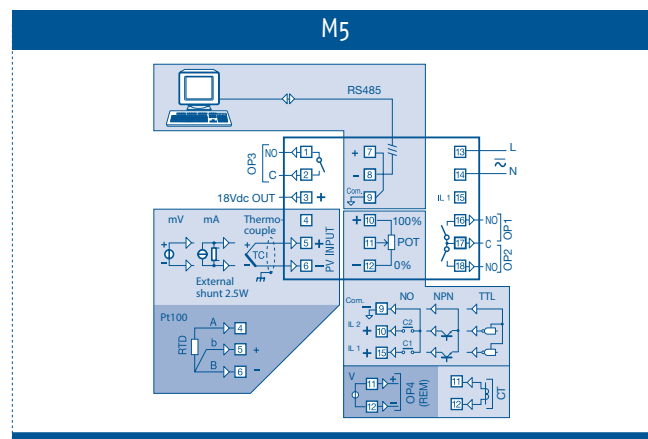
DISPLAY	M5
Double	Main display: 4 green digit, h 10 mm Secondary display: 4 green digit, h 8 mm + 8 LEDs
INPUTS	
Universal	Thermocouples: L/J/E (0... +600°C / 32... +1112°F), T (-200... +400°C / -328... +752°F), K/N (0... +1200°C / 32... +2192°F), S/R (0... +1600°C / 32... 2912°F), B (0... 1800°C / 32... 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)
Accuracy	0.25% ±1 digit (thermoelements) 0 0.1% ±1 digit (for mA and mV)
Auxiliary inputs (opt.)	Non isolated remote Set Point: current 0/4... 20mA or voltage 1...5/ 0...5/ 0...10V Current Transformer for Heater Break function Potentiometer position feedback measurement
Digital inputs	2
OUTPUTS	
Up to 4	OUT 1 and OUT 2: Relay NO, 2A/250Vac for resistive loads or Triac 1A/250Vac for resistive loads OUT 3: Relay NO, 2A/250Vac for resistive loads OUT 4: Analogue in current: 0/4...20mA max. 750Ω/10V max./ voltage: 0...1/5/10V 500Ω / 20mA max. (galvanically isolated) or 0...18Vdc, 20mA max. to drive SSR
Auxiliary power supply	+18Vdc ±20%, 30mA max. for external transmitter (2, 3 or 4 wires)
FUNCTIONAL	
Control	PID, ON/OFF
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
Operating modes	1 Loop with single/double action with or without programmer
Set Point	Local + 2 stored Set points, only Remote, Local and Remote, Local with trim, Remote with trim, Time programmable
Program	1 program, 16 segments, 1... 9999 cycles or continuous cycling (OFF)
Auto/Man station	Integrated, Bumpless operated from keyboard, digital inputs and serial communication
Servomotor control	Motor travel time, motor minimum step
Signal retransmission	Measuring or Set Point retransmission
Serial communication	Isolated RS485 with ModBus-RTU (JBUS) protocol, with 2 wires
Baud rate	1200, 2400, 4800, 9600, 19200 bit/s, a 3 wires
GENERAL	
Power supply	100... 240 Vac (-15... +10%) 0 24Vac (-25... +12%) e 24Vdc (-15... +25%) (50/60Hz)
Power consumption	3VA max.
Dimensions / Weight	48 x 48 mm (1/16 DIN), depth 150 mm / 230 g approx.
Mounting	Flush in panel in 45 x 45 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

HOW TO ORDER

To compose the part number, pls. choose one of the option for each variable

M5		CODE
POWER SUPPLY		
100... 240 Vac		3
24 Vac/Vdc		5
OUT 1 AND OUT 2		
Relay/Relay		1
Relay/triac		2
Triac/Relay		4
Triac/triac		5
SERIAL COMMUNICATION		OPTIONS
Not available	Not available	00
	Potentiometer	01
	Remote Set Point	02
	CT input	03
	Voltage for SSR driving/ Analogue output	04
RS485	Voltage for SSR driving/ Analogue output+ Remote Set point	05
	Not available	50
	Potentiometer	51
	Remote Set Point	52
	CT input	53
	Voltage for SSR driving/ Analogue output	54
SPECIAL FUNCTIONS		
Not available		0
Programmer		1
INSTRUCTION MANUAL		
Italian/English		0
Not available		9
FRONT FRAME COLOUR		
Dark grey (std)		0
Dark grey shunt 0.1%		2
SPECIAL EXECUTION		
Not available		0
On DIN rail		1
On DIN rail without display		2
Tropicalized		3

CONNECTIONS



DIMENSIONS

