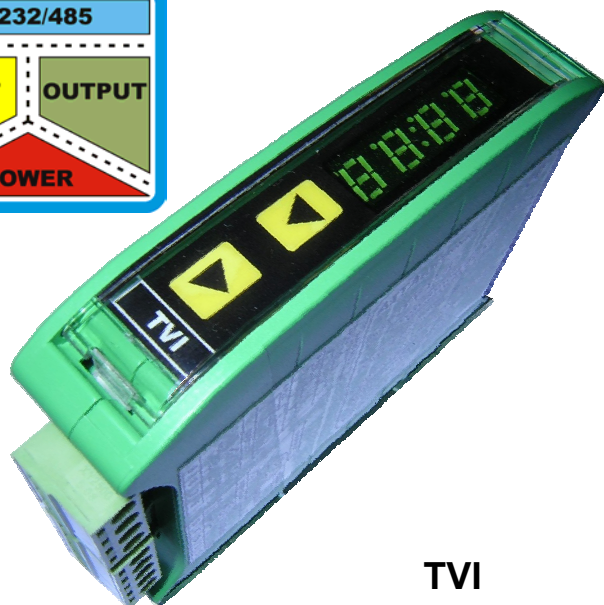
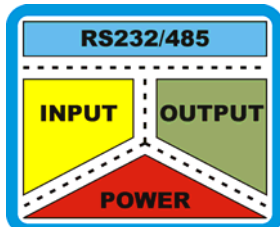


## CONVERTITORE ISOLATO TEMPERATURA → 0 ÷ 10V o 0 ÷ 20mA ISOLATED CONVERTER TEMPERATURE → 0 ÷ 10V or 0 ÷ 20mA



TVI

TVI è un modulo in grado di convertire una temperatura in ingresso da termocoppia J,K,R,S o PT100,500,1000 in un segnale in uscita programmabile 0 ÷ 10V, 0 ÷ 20mA. Garantisce un isolamento galvanico di 1,5KV a 3 punti (alimentazione, ingresso, uscita). E' composto da un modulo elettronico racchiuso in una custodia adatta al montaggio su guida DIN, completo di connettori estraibili.

TVI-X-1(RS232) e TVI-X-2(RS485) hanno una interfaccia seriale per i protocolli: MODBUS-RTU/ASCII ed AITA<sup>ELECTRONICS</sup>.

TVI is a module capable of converting a temperature input from: thermocouple J,K,R,S or PT100,500,1000 in an output signal programmable 0 ÷ 10V, 0 ÷ 20mA. Provides galvanic isolation of 1.5kV to 3 points (power supply, input, output). Consist of an electronic module contain in a proper enclosure suitable for mounting on slide DIN, with an removable terminals block.

TVI-X-1(RS232) e TVI-X-2(RS485) have a serial interface for the protocols: MODBUS-RTU/ASCII ed AITA<sup>ELECTRONICS</sup>.

### CARATTERISTICHE GENERALI GENERAL FEATURES

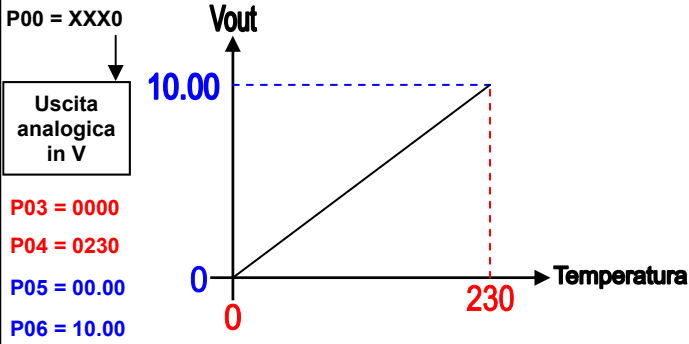
ALIMENTAZIONE POWER SUPPLY	85 ÷ 265Vac 20 ÷ 30Vac/dc
INGRESSO INPUT	Termocoppia/Termocouple: J,K,R,S RTD: PT100,PT500,PT1000. Impedenza/impedence: 1 Mohm
USCITA IN TENSIONE OUTPUT VOLTAGE	0 ÷ 10V Min. resistenza di carico: 1 Kohm
USCITA IN CORRENTE OUTPUT CURRENT	0 ÷ 20mA Max. resistenza di carico: 500 ohm
RISOLUZIONE (12bit) RESOLUTION (12bit)	2mV (tensione), 4µA (corrente) 2mV (voltage), 4µA (current)
TEMPO DI CONVERSIONE CONVERSION Time	≤ 300 msec.
ERRORE DI CONVERSIONE CONVERSION ERROR	≤ 0,1% sull'intera scala ≤ 0,1% of full-scale value
COMP. GIUNTO FREDDO COMP. COLD JUNCTION	Interno (errore max ± 2 °C). Internal (error max ± 2 °C).
ISOLAMENTO INSULATION	1,5KV
CONSUMO POWER CONSUMPTION	1 VA
COLLEGAMENTI CONNECTIONS	connettori estraibili a 4,5 poli extractable terminals block to 4,5 vias
DIMENSIONI DIMENSIONS	22,5x101 mm frontale, prof.80mm 22,5x101 mm frontal, depth 80 mm

### CARATTERISTICHE PROGRAMMABILI PROGRAMMABLE FEATURES

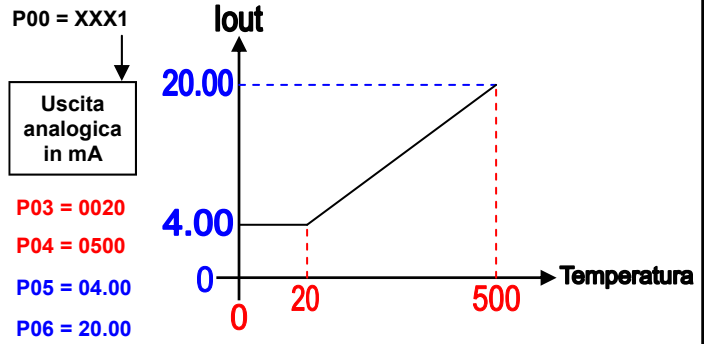
TIPO INGRESSO INPUT TYPE	TC (J,K,R,S) RTD (PT100,500,1000)
N° FILI RTD N° WIRES RTD	2,3,4
TIPO GRADI DEGREES TYPE	°C, °F
USCITA OUTPUT	V,I
CORREZIONE OFFSET OFFSET CORRECTION	-99.9 ÷ 99.9 °C, °F
CORREZIONE PERCENTUALE PERCENTAGE CORRECTION	-99.9 ÷ 99.9 %
INIZIO/FINE SCALA TEMPERATURA START TEMPERATURE SCALE	-200 ÷ +1200 °C -328 ÷ +2192 °F
INIZIO/FINE SCALA USCITA START OUTPUT SCALE	0 ÷ 10V 0 ÷ 20mA

ESEMPI DIAGRAMMI DI FUNZIONAMENTO  
EXAMPLE OF OPERATION DIAGRAMS

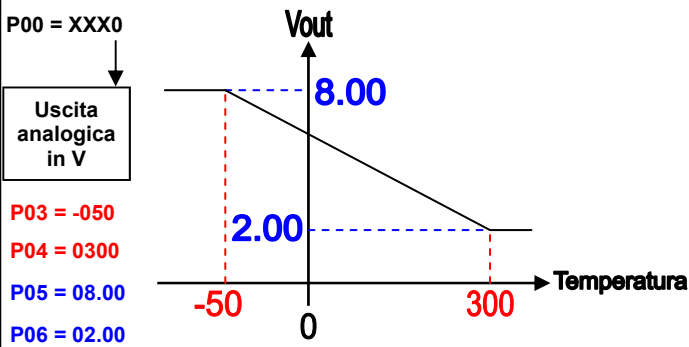
Uscita in tensione (0÷10V):  
Voltage output (0÷10V):



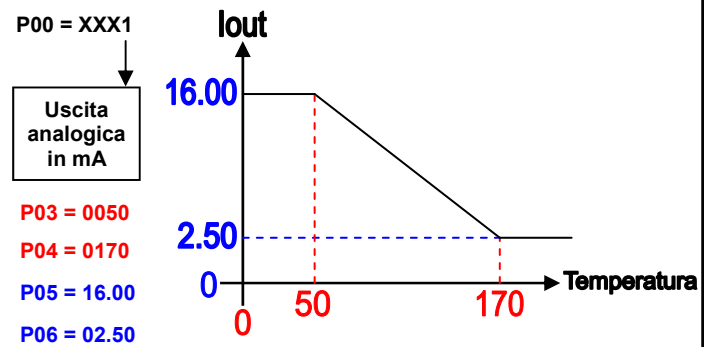
Uscita in corrente (4÷20mA):  
Current output (4÷20mA):



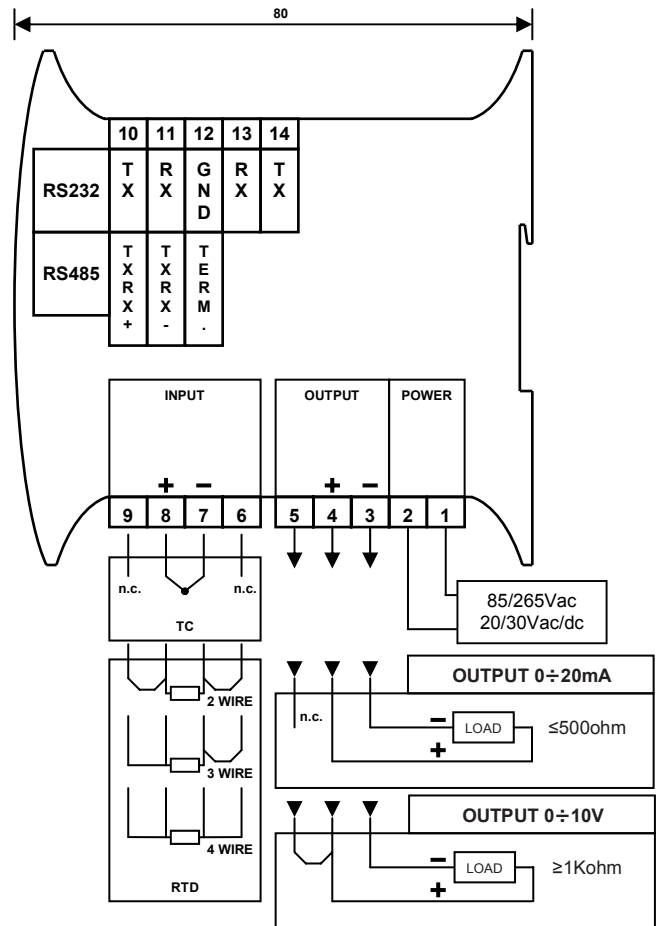
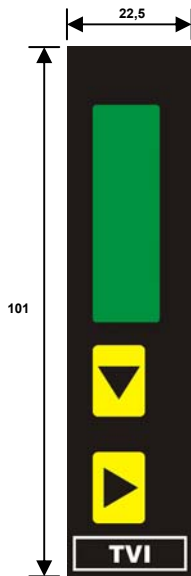
Uscita in tensione (8÷2V):  
Voltage output (8÷2V):



Uscita in corrente (16÷2,50mA):  
Current output (16÷2,50mA):



DIMENSIONI E COLLEGAMENTI  
DIMENSIONS AND WIRING



COME ORDINARE TO ORDER

