



DIGITAL PANEL METERS

TLV-TDV TDL



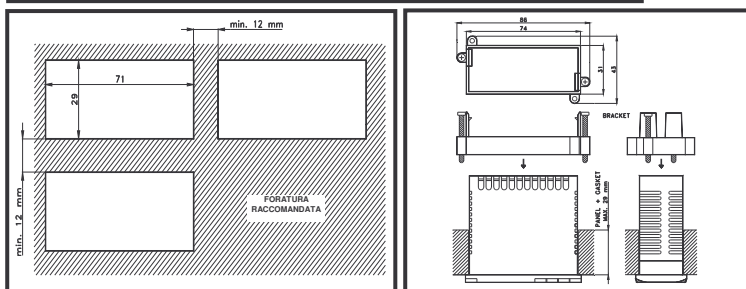
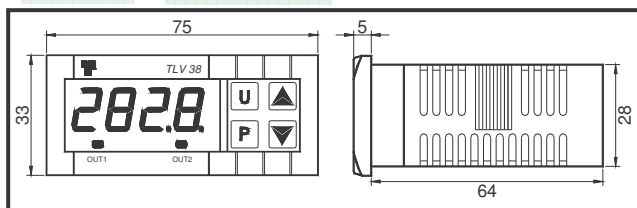
- 33x75 mm
- 33x65 mm
- RS485

TDV 01	TLV 38	TLV 31	TDL 50

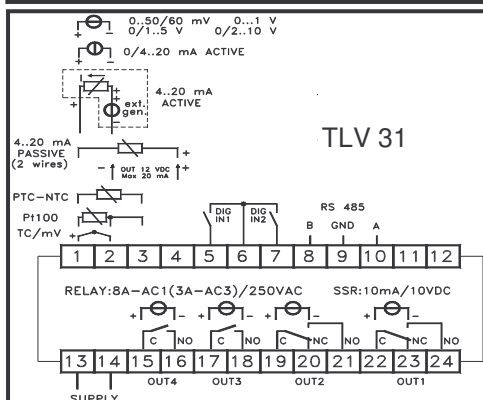
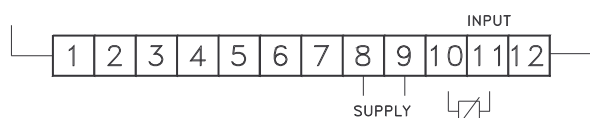
MECHANICAL CHARACTERISTICS				
Housing	Self-extinguishing plastic, UL 94 V0			
Dimensions	33x75 mm - depth 64 mm			33x65 mm-dep. 50 mm
Weight	100 g. approx.	180 g. approx.	190 g. approx.	105 g. approx.
Connections	2,5 mm ² screw terminal block			
Mounting	Flush in panel in 29x71 mm hole			Flush in pan. 25x58 mm hole
Front panel protection	IP 65 mounted in panel with gasket			
ELECTRICAL DATA				
Power supply	12 VAC/DC 24, 230 VAC +/- 10%	12, 24 VAC/DC 100...240 VAC +/- 10%	12 VAC/DC	12 VAC/DC 24, 115, 230 VAC +/- 10%
AC Frequency	50 / 60 Hz			
Power consumption	3 VA approx.	4 VA approx.	5 VA approx.	2 VA approx.
INPUT DATA				
Thermistor	PTC KTY 81-121 (990 Ω at 25°C)	See below		NTC 103AT-2 (10 kΩ at 25°C)
4 different configurations	--	Thermocouples J, K, - IEC 584-2, Pt 100 – According to IEC 751, Infrared IRS J and K 0...50 mV, 0...60 mV, 12...60 mV		--
		Thermocouples J, K, S – IEC 584-2 PTC KTY 81-121 (990 Ω at 25°C) NTC 103AT-2 (10 kΩ at 25°C) Infrared IRS J and K 0...50 mV, 0...60 mV, 12...60 mV		
		0/4...20 mA		
		0/1...5 V, 0/2...10 V		
Digital input		--	1 free voltage contact	
OUTPUT DATA				
Relay	--	2 outputs SPDT (8 A-AC1, 3 A-AC3 / 250 VAC)	2 outputs SPST-NO + 2 outputs SPDT (8 A-AC1, 3 A-AC3 / 250 VAC)	--
Relay electric life		100000 operations		
SSR driving		8 mA / 8 VDC	10 mA / 10 VDC	
Auxiliary power supply		12 VDC / 20 mA Max		
FUNCTIONAL DATA				
Applications	Temperature	Temperature, Relative Humidity, Pressure		Temperature
Overall accuracy	+/-0,5% end scale		+/-0,15% end scale	
Display resolution	1°	According to used probe 1/0,1/0,01/0,001		1°
Measuring range	-50...+50°C	According to used probe		-50...+50°C
Measuring unit	°C	°C - °F, programmable		°C
Sampling rate	1 sample per second	8 samples per second		1 sample per second
Serial communication	--	RS485 MODBUS-RTU (JBUS) protocol		--
Parameters access	--	Protected by password		--
Display	2 red digit h=12 mm	4 red digit h=12 mm		2 red digit h=12 mm
Operating temperature	0...50°C			
Operating humidity	30...95 RH% without condensation			

TDV 01

TLV 38-31



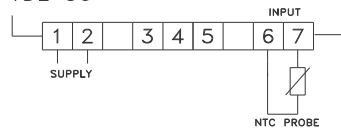
TDV01



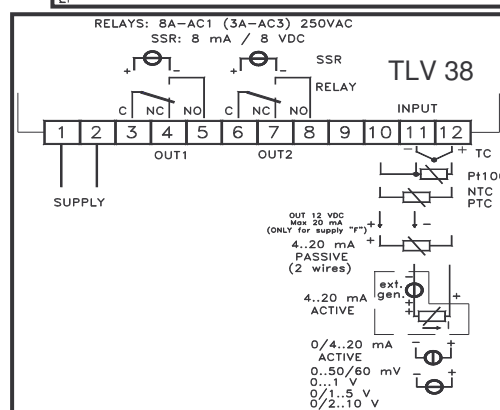
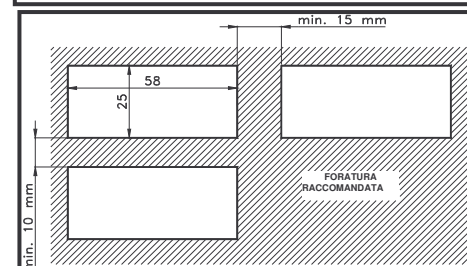
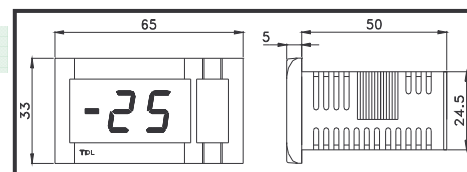
TLV 31

CONNECTIONS

TDL 50



DIMENSIONS (mm)



TLV 38

CODING

TLV 31 33 x 75		
Descrizione	Codici	Descrizione Codici
Segnale in ingresso	V	0-1/5V, 0-2/10 V
	I	0-4/20 mA
	E	TC (J,K,S,IR) + PTC,NTC,
	C	TC (J,K,S,IR) + PT100, mV
Prima uscita OUT 1	R	Relè
	O	10 mA / 10 VDC per SSR
	-	No uscita
Seconda Uscita OUT 2	R	Relè
	O	10 mA / 10 VDC per SSR
	-	No uscita
Terza Uscita OUT 3	R	Relè
	O	10 mA / 10 VDC per SSR
	-	No uscita
Quarta Uscita OUT 4	R	Relè
	O	10 mA / 10 VDC per SSR
	-	No uscita
Comunicazione Seriale	S	RS485
Ingresso Digitale	I	Ingresso digitale
	-	No

TLV 38 33 x 75		
Descrizione	Codici	Descrizione Codici
Alimentazione	F	12 VAC/DC
	L	24 VAC/DC
	H	100...240 VAC
Segnale in ingresso	V	0-1/5V, 0-2/10 V
	I	0-4/20 mA
	E	TC (J,K,S,IR) + PTC,NTC,
	C	TC (J,K,S,IR) + PT100, mV
Prima uscita OUT 1	R	Relè
	O	10 mA / 10 VDC per SSR
	-	No uscita
Seconda Uscita OUT 2	R	Relè
	O	10 mA / 10 VDC per SSR
	-	No uscita

TDL 50 33 x 65		
Descrizioni	C o d i c i	Descrizione Codici
Alimentazione	F	12 VAC/DC
	A	24 V AC
	C	115 VAC
	D	230 VAC

TDV 01 33 x 75		
Descrizioni	Codici	Descrizione Codici
Alimentazione	F	12 V AC/DC
	A	24 V AC
	D	230 VAC