

# ITFT1 – triple indicator for panel-mounting in 96x48 mm (WxH)

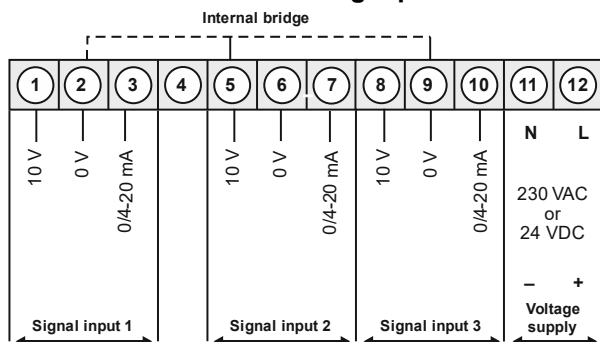
## Standard signals: 3x 0/4-20 mA, 0-10 VDC (galv. not isolated among each other)

- presentation of metered value of 3x -1999...9999 digits
- digit height approx. 9 mm
- selectable colour for measurand and background: red, green, white, black, orange
- minimal installation depth: 25 mm without plug-in terminal, with transformer 42 mm
- display panel 2,4", 320x240 Pixel
- adjustable signs for physical dimensions
- min/max value recording
- 9 adjustable supporting points
- display flashing at threshold value exceedance/undercut
- Tara function
- programming interlock via access code
- protection class IP65 at the front
- pluggable screw terminal
- option: 2 relay outputs
- accessories: PC-based configuration kit PM-TOOL with USB adapter



**ORDER NUMBER EUR**  
(without options)

### • Multifunctional measuring input



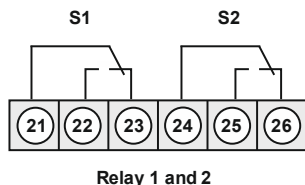
Supply 230 VAC

**ITFT1-13V.0001.570A 238.30**

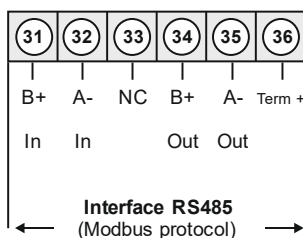
Supply 24 VDC galv. isolated

**ITFT1-13V.0001.770A 248.90**

Options:



alternative to relay 1 and 2



in preparation

### • Order key options

IT	F	T	1	-	1	3	V.	0	0	0	1.	5	7	0	A
IT	F	T	1	-	1	3	V.	0	0	0	1.	7	7	0	A

2	2 relay outputs	35.00
4	Interface RS485 – with Modbus protocol (in preparation)	58.30

### • Parameterisation software

PC-based configuration software PM-TOOL, for a simple adjustment, incl. USB adapter. Programming happens on the rear side via micro USB-plug.

**PM-TOOL-USB**

**30.70**

## • Technical data

<b>Housing</b>	Dimensions Panel cut-out Fixing Housing material Sealing material Protection class Weight Connection	W96 x H48 x D25 mm, (D = 42 mm with transformer, D = 47 mm, incl. plug-in terminals) 92.0 <sup>+0.8</sup> x 45.0 <sup>+0.6</sup> mm screw elements for a wall thickness of up to 3 mm PC Polycarbonate, black, UL94V-0 EPDM, 65 Shore, black at the front side IP65 standard, at the rear side IP00 approx. 150 g plug-in terminal; wire cross section up to 2.5 mm <sup>2</sup> push-in terminal; wire cross section up to 0.75 mm <sup>2</sup> for interface RS485	
<b>Display</b>	Display Digit height Presentation of metered value Measurand background colour Limit values	fullgraphic TFT-display with 320x240 Pixel, font Segoe UI 9 mm 3x -1999 to 9999 Red, Green, White, Black or Orange (selectable) optical display flashing	
<b>Measuring input</b>			
<b>Signal</b>	<b>Measuring range</b>	<b>Measuring range</b>	<b>Resolution</b>
Voltage	0...10 V Ri > 100 kOhm	0...12 V	≥ 14 bit
Current	4...20 mA Ri = ~125 Ohm	1...22 mA	
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<b>Output</b>	Relay with change-over Contact	30 VDC / 2 A resistive burden	
<b>Interface</b> (in preparation)	RS485 Protocol	9.600 Baud, no parity, 8 data bit, 1 stop bit, wire length max. 1000 m Modbus with ASCII or RTU-protocol	
<b>Measuring error</b>	Standard	0.1% of measuring range ± 1 digit	
<b>Accuracy</b>	Drift of temperature Measuring time Measuring rate Measuring principle Resolution	100 ppm/K 0.01 to 2.0 seconds approx. 100/s U/F conversion approx. 14 bit at 1 sec measuring time	
<b>Power pack</b>	Supply	230 VAC 50/60 Hz, ≤ 3 VA 24 VDC ± 10% galvanic isolated, ≤ 1 VA	
<b>Memory</b>	EEPROM	Data preservation ≥ 100 years at 25°C	
<b>Ambient conditions</b>	Working temperature Storing temperature Weathering resistance Height	-20 to + 60°C, without dew -30 to + 70°C relative humidity 0-85% on years average without dew up to 2000 m	
<b>EMV</b>	EN 61326		
<b>CE-identification</b>	Conformity according directive 2014/30/EU		
<b>Safety regulations</b>	According to low voltage directive 2013/35/EU; EN 61010; EN 60664-1		

### Housing:

