

TENSIOTRON® TS 481

Electronic measuring amplifier



The **TENSIOTRON® TS 481** measuring amplifier is especially designed for industrial operations with the sensors **RFS® 150** and **WTS** as well as the sensor roll **SWA**.

Applications for this universal instrument are many and varied because of the different types of construction and the wide setting range for amplification and zero point.

The latest electronics guarantee high measuring accuracy, temperature and long-term stability

Special features:

- excellent resistance to interference voltages and high degree of operational reliability
- potentiometer function and connections for peripherals are clearly labelled
- IP 65 safety rating when installed in the aluminium case
- coarse and fine adjustment for amplification and zero point
- the amplifier has three mutually independent signal outputs, they may be used simultaneously:
 - pure tension
 - average
 - current output (OPTION)

Technical data TS 481

Designation		TENSOTRON® TS 481		
Design		19"-slide-in card	fitted on a mounting plate	
Accuracy class		0,1		
Sensor to be connected: - strain gauge, full bridge	Ω	170 ... 5000		
Bridge excitation - ref. to ground	V DC V	10,0 $\pm 5,0$		
Nominal measuring ranges	mV / V	1,0	1,5	2,0
Calibration range	%	80 ... 200	80 ... 200	80 ... 200
Adjustment range zero point - fine approx.. - rough approx.	% * % *	± 15 ± 112	± 10 ± 75	$\pm 7,5$ ± 56
Input impedance	Ω	$> 10^{10}$		
Outputs - direct signal - average signal - OPTION: current output	V V mA	0... ± 10 , max. 5 mA, approx. 5 ms on 3 dB 0... ± 10 , max. 5 mA, approx. 2 s on 3 dB 0 / 4 ... 20, admissible load 0 ... 500 Ω		
Rated temperature range	$^{\circ}\text{C}$	0 ... + 60		
Operational temperature range	$^{\circ}\text{C}$	0 ... + 60		
Temperature influence per 10 K - on the zero point at amplifier output - on the calibration	mV % *	< 10 (in the measuring range 1 mV/V) < 0,05		
Supply - voltage - frequency Power consumption	V Hz VA	230 / 115 ± 10 % 45...60 approx. 3		
Connection		blade contact connector, 32 poles, to DIN 41612 D	screw clamp, 20 poles, for flexible cable 0,14 ... 1,5 mm ²	
Dimensions - Card - Front plate - Mounting plate	mm mm	19"-European standard card 100 x 160 3 HE / 6 TE	19"-European standard card 100 x 160 107 x 207 x 4,5 (LxWxH)	
Weight	g	approx. 400	approx. 600	

* \Rightarrow of final value

Technical execution subject to change without prior notice
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