

pH TRANSMITTER

Mod. : DO 9785T - R1
DO 9765T - R1



DO 9785T / DO 9765T pH transmitters convert the output of a pH electrode with temperature compensation, into a signal, at $4 \div 20\text{mA}$. The pH electrode input circuit is galvanically insulated against the $4 \div 20\text{mA}$ output signal. An LCD indicator allows viewing of the process signal value and of the various parameters. The accurate design and choice of components make the instrument precise and reliable for a long working life.

The instrument works in conjunction with a pH electrode or Redox and a temperature probe (Pt100 sensor, 100 W at 0°C).

Technical characteristics :

combined Electrode Input	pH	-1,00 pH....15,00 pH (-500....+500 mV)
	ORP	-1999...+1999 mV
	Input impedance	> 10 Tohm
	Cable length	< 50 meters screened (about 5 nF)
	Accuracy	0.1% of reading ± 1 digit $\pm 0.01\%$ pH per $^\circ\text{C}$ of drift in temperature
Temperature Input	Pt100 2/4 wires	-50...199.9 $^\circ\text{C}$
	Transducer energizing	0.5 mA DC
	Cable length	< 10 meters unscreened, < 50 meters screened (about 2 nF)
	Accuracy	0.2 $^\circ\text{C} \pm 0.1\%$ of reading ± 2 digits $\pm 0.01^\circ\text{C}/^\circ\text{C}$
temp. Compensation	Automatic	According to Nernst
	Manual	-50 \div 200 $^\circ\text{C}$
Current output	4.00...20.00 mA	Programmable and proportional of the pH or mV value
	Accuracy	0.5% of reading ± 0.02 mA
	Insulation	2500 Vac 1 minute
R Load	Load resistance	$R_{Lmax} = \frac{V_{dc}-10}{0,022}$ $R_{Lmax} = 636 \text{ W @ } V_{dc} = 24\text{Vdc}$
Relay output	A and B	Bistable, contact 3A/230 Vac free potential
Power Supply	Passive	4 \div 20 mA, 2 wire configuration, 10 \div 35 V
	Active	24 or 230 Vac - 15/+10% 1VA, 48...62 Hz
DO 9765T Case	External dimensions	120 \times 122 \times 56 mm
	Protection class	IP64
DO 9785T Case	External dimensions	96 \times 96 \times 126 mm
	Protection class	IP54

ORDER CODE :

DO 9785T : pH transmitter passive or active, power supply 24 Vac with double display 96 \times 96 mm, for panel mounting.
DO 9766T : pH transmitter passive or active, power supply 24 Vac with double display 122 \times 120 mm, for use on the field.

Note : Required pH Electrodes, Temperature sensor & Buffer Standards to be ordered separately.



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