

Measuring transducer SEPARIX-Control CT

Mode of operation

The measuring transducer SEPARIX-Control CT is used for the power supply and analysis of the oil separator sensor SEPARIX-C .. and the high-level sensor SEPARIX-T .. . Alarms and malfunctions are signalled optically and acoustically by means of light-emitting diodes and a built-in buzzer. External alarm transmitters can be connected via potential-free changeover contacts, which are switched in the case of an alarm. The acoustic alarm can be acknowledged using the Alarm button. The optical alarm remains on until the cause of the alarm has been eliminated. An internal switch can be used for an optional setting to determine whether or not external alarm transmitters can be reset at the potential-free changeover contacts. Additional internal setting options are the automatic alarm repeating function after 24 hours, changeover contact switched in the alarm or normal state, and whether the alarm is to be activated for the detection of liquid or air. The function test for the internal and external alarm functions can be carried out using the Test button.

Installation

Connecting the auxiliary power, the oil separator sensor, the high-level sensor and an optional, external alarm transmitter must be carried out according to the connection diagram. The maximum values for the operating parameters mentioned on the wiring diagram must be observed.

Wiring work may only be performed with the equipment in de-energized condition. The special VDE regulations and the local installation regulations must be observed.

Operating instructions

Before being put into service, all devices must be checked with respect to correct connection and proper operation. The electrical power supply, including the supply of the downstream devices, must be checked.

The general operating instructions for the devices being used must be observed. The measuring transducer is maintenance-free.

Technical data

Auxiliary power	230 V; 50 – 60 Hz; $\pm 10 \%$; 8 VA			
Sensor circuits				
SEPARIX-C ..				
Voltage	$U_o \leq 14.3 \text{ V}$			
Current	$I_o \leq 21.2 \text{ mA}$			
Power	$P_o \leq 75.5 \text{ mW}$			
Internal resistance	$R_i \geq 673 \Omega$			
Inductance (outward acting)	L_i negligible			
Capacitance (outward acting)	$C_i \leq 1 \text{ nF}$			
		IIC	IIB	
Outer inductance	$L_o \leq 80 \text{ mH}$		$\leq 300 \text{ mH}$	
Outer capacitance	$C_o \leq 0.68 \mu\text{F}$		$\leq 4.28 \mu\text{F}$	
SEPARIX-T ..				
Voltage	$U_o \leq 15.75 \text{ V}$			
Current	$I_o \leq 0.154 \text{ A}$			
Power	$P_o \leq 0.61 \text{ W}$			
Internal resistance	$R_i \geq 156.8 \Omega$			
Inductance (outward acting)	L_i negligible			
Capacitance (outward acting)	$C_i \leq 0.3 \text{ nF}$			
			IIC	IIB
Maximum outer inductance	$L_o \leq 440 \mu\text{H}$	$\leq 100 \mu\text{H}$	$\leq 5 \text{ mH}$	$\leq 1 \text{ mH}$
Maximum outer capacitance	$C_o \leq 230 \text{ nF}$	$\leq 310 \text{ nF}$	$\leq 760 \text{ nF}$	$\leq 1.6 \mu\text{F}$

Output circuits potential-free changeover contact

Alternating voltage: $U_{\text{eff}} \leq 250 \text{ V}; I_{\text{eff}} \leq 5 \text{ A}; P_{\text{eff}} \leq 500 \text{ VA}; \cos \varphi \geq 0.7$

Direct voltage $U \leq 250 \text{ V}; I \leq 0.25 \text{ A}; P \leq 50 \text{ W}$

Ambient temperature 0 – 40 °C

Labelling:

EC type test certificate no.: TÜV 05 ATEX 2819

In compliance with EC Directive 94/9:  0032  II (1) G [EEx ia] IIC / IIB