

Measuring transducer SEPARIX-Control C

Mode of operation

The measuring transducer SEPARIX-Control C is used for the power supply and analysis of the oil separator sensors SEPARIX-C H or SEPARIX-C L. 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 a potential-free changeover contact, which is 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 an external alarm transmitter can be reset at the potential-free changeover contact. 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 oil/light liquid or water. 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 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; $\pm 10 \%$; 4 VA	
Sensor circuit		
Voltage	$U_o \leq 14.3 \text{ V}$	
Current	$I_o \leq 21.2 \text{ mA}$	
Power input	$P_o \leq 75.7 \text{ mW}$	
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	$C_o \leq 0.68 \mu\text{F}$	$\leq 4.28 \mu\text{F}$
Output potential-free changeover contact	$U_{\text{eff}} \leq 250 \text{ V}; I_{\text{eff}} \leq 5 \text{ A}; P_{\text{eff}} \leq 500 \text{ VA}; \cos \varphi \geq 0.7$	
Ambient temperature	0 – 40 °C	
Labelling:		
EC type test certificate no.:	TÜV 03 ATEX 2369	
In compliance with EC Directive 94/9:	 0032	 II (1) G [EEx ia] IIC / IIB