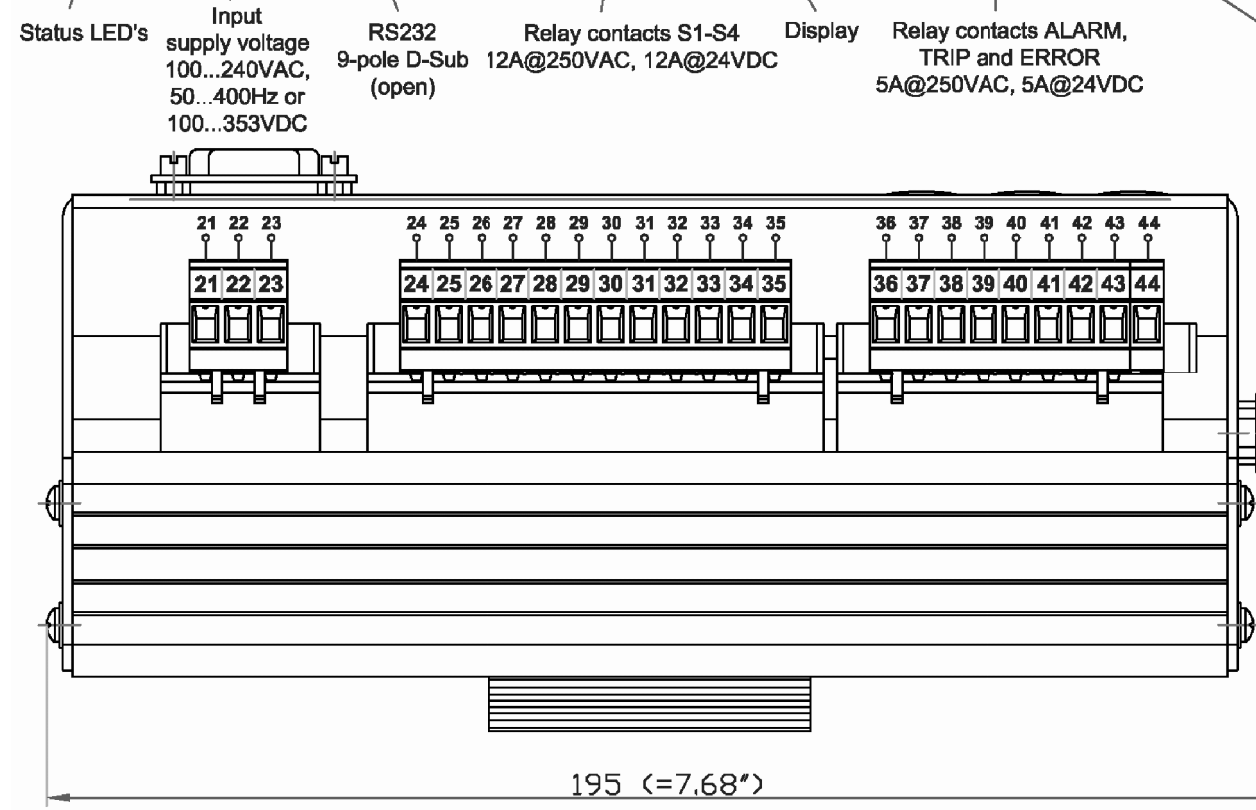
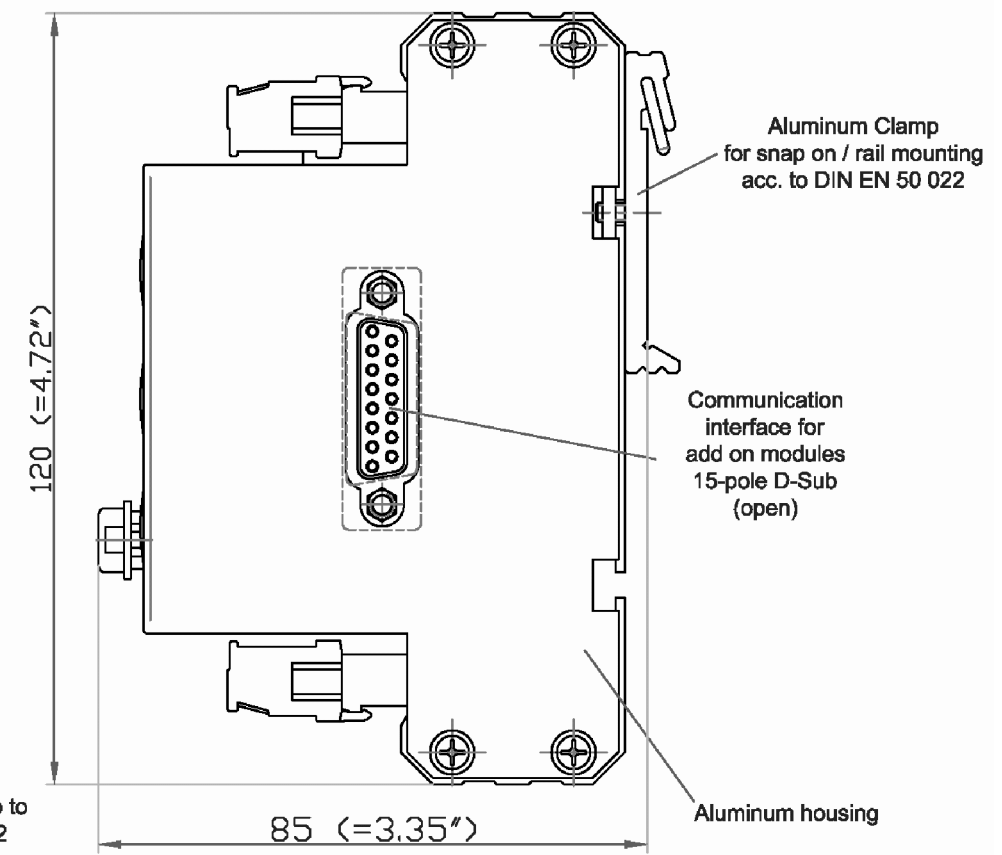
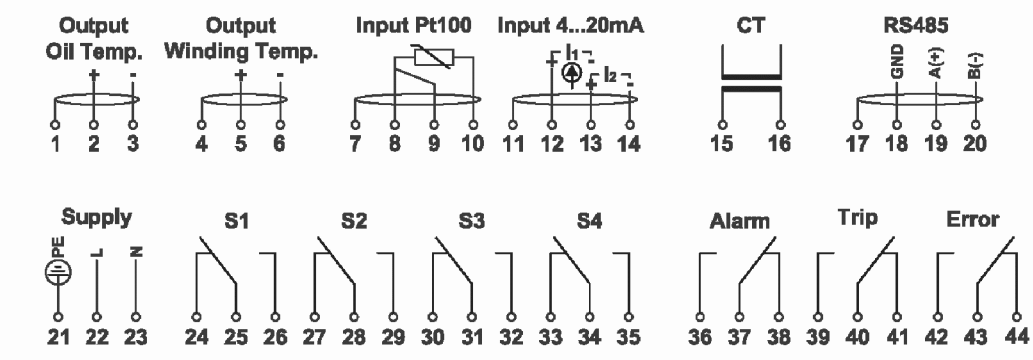


Push buttons

Terminals for leads up to 2,5mm², AWG 24-12 solid and stranded



Analog outputs
 factory preset 4...20mA, 0...20mA, 0...1mA or 0...10V



Basic technical data
 1xoil/1xambient temperature input(Pt100/4...20mA)
 1xcurrent transformer input 0.5...5A for winding temperature calculation
 7xrelay contacts;2xanalog outputs
 1xRS485; 1XUSB
 Supply voltage standard 80-265VAC and 80-353VDC
 Rail mounting acc. to EN 60715 TH35-7,5 or TH35-15
 Input range -20...+140°C
 Protection mode: IP00 acc.to IEC 751
 Weight: Approx. 1.2 kg

Part no.:66421-00-00-00
 Manufacturer:MESSKO;GERMANY

Transformer number:		Transformer type:		Project name:		Scale:	
Free dimensions tolerances:		Material number:		Material name:			
Date:	11.2011.	Title:				KPT ED	
Designed:	Kufrin	ELECTRONIC TRANSFORMER MONITOR EPT202-basic module -rail mounting				AutoCAD/A4	
Checked:	Tomić						
Approved:	Kranjčec						
Končar Power Transformers Ltd.		Revision number:	Release:	Drawing number:	Mass:	Sheet/Sheets:	
			1	B51 79 030		1 / 1	

Dokument je izdan u elektroničkom obliku. Punovažan je bez potpisa i ostaje u isključivom vlasništvu društva Končar Energetski transformator d.o.o. Prelistak i upotreba izvan namjene nisu dozvoljeni. This document is published electronically. It is valid without signature. The document remains the exclusive property of the Končar Power Transformers Ltd. Reproduction or any use not in conformity with the intended application is not permissible.

1.5 Capacity Features of the Basic Device

The basic device indicates one oil and winding temperature each on an LCD display. This requires the connection to the device of a temperature sensor with Pt100 or 4...20mA output which measures the „TopOil“ temperature in the transformer. The minimum and maximum values of the oil and winding temperature as well as the maximum value of the load current are indicated and can be called later. Two analog outputs and one RS 485 interface are available for remote indication of the temperature values.

The data logging function is used to store the temperature-specific data on the device at regular intervals so that it can be called at all times.

The thermal image of the transformer is simulated in accordance with IEC 60354 or ANSI standard. For this the CT current which indicates the load of the transformer must be connected to the device. Parameterization of the transformer and cooling stage can be performed via the keys on the front or via visualization software which is available as an option.

An Easy-Set function is also available with the visualization software with which the parameterization can be performed in accordance with the IEC standard.

Four relays are used to control 5 cooling stages. These can also be selectively controlled during load changing operation. This permits a time-equalized load of the individual cooling stages. In addition one relay each is available for Alarm and Trip. The switching point, the hysteresis and the delay time of the individual relays can be set as desired and they can be addressed via the oil or winding temperature. Manual operation is also possible as an alternative.

A further special feature is the life management calculation in accordance with the IEC or ANSI standard.

A temperature sensor can be connected to the 4-20mA sensor input to record the ambient temperature. A Pt100 sensor must then be used to detect the Top-Oil temperature.

2 Technical Data

Protective housing

Rail mounting:	Aluminum housing, can be snapped on for carrying rail in accordance with DIN EN 60715 TH 35-7.5 and TH 35-15, protection rating: IP 00 in accordance with IEC 60529, weight: approx. 1.2 kg
19" Subrack 42TE:	19" rack in accordance with DIN 41494, part 5, 223 x 133 x 178 mm (W x H x D) for installation in 19" cabinet system, protection rating: IP 00 in accordance with IEC 60529, weight: approx. 1.5 kg
Control panel mounting:	Aluminum housing, 270 x 200 x 133 mm (W x H x D) for panel cutout 236 x 142 mm (W x H), protection rating: IP 00 in accordance with IEC 60529, weight: approx. 1.5 kg
19" Subrack 84TE:	19" rack in accordance with DIN 41494, part 5, 483 x 133 x 178 mm (W x H x D), protection rating: IP 00 in accordance with IEC 60529, weight: approx. 2.5 kg

Temperature range

Operation:	-25°C ... +70°C
Storage:	-30°C ... +85°C

Operator elements, indication, terminals

Operator elements:	5 function buttons with perceptible pressure point
Indication:	Monochrome display, white letters on blue backlight, 128 x 64 pixels
Status LEDs:	1 LED, green, for „POWER“ operational indication 1 LED, yellow, for „ALARM“ switching contact 1 LED, red, for „TRIP“ switching contact 1 LED, red, for „ERROR“ switching contact 4 LEDs, yellow, for switching contacts S1, S2, S3 and S4
Terminals:	Safety screw terminals, for rigid braided leads: 0.2 - 2.5 mm ² , AWG 24 - 12, flexible braided leads (with core end sleeves): 0.2 - 2.5 mm ² , AWG 24 - 12