

SPQ-I250-3/4JCLA

Intelligent Clamp-On Current Probe



Instrument Description

SPQ-I250-3/4JCLA is designed as an optional accessory for NEMO analyzers. It provides indirect measurement of 3 or 4 currents (L1, L2, L3 and N or L4) in low voltage networks. These probes are designed with three or four clamp-type current transformers assembled to the common housing. The probe has four remotely switched measuring ranges 250A, 50A, 10A and 2A. One measuring range can be configured together for L1, L2, L3 inputs and another one for N or L4.

Installation Instructions



WARNING

Installation, operation and maintenance of the probe may be carried out by qualified personnel only with respect to installation instructions and safety regulations in low voltage networks.

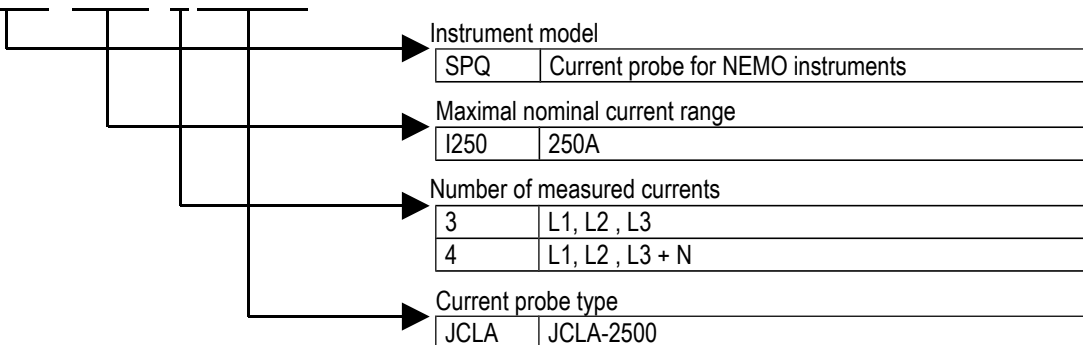
When operated in contradiction with the technical specifications, proper functionality is not guaranteed. Don't touch instrument terminals and don't use the instrument without its cover.

Operation Instructions

1. Connect the probe to the NEMO analyzer and turn on the instrument.
2. Connect the instrument to the PC, turn on ENVIS.Daq and connect to the instrument.
3. Set or check the appropriate current range settings for L1, L2, L3 and L4 (the respective LED will lit on the probe).
4. Clip each sensor around the measured wire. Orientation of probes is given by the arrow and **P1**, **P2** signs. Arrow corresponds to the positive flow of energy.
5. Take special care of the proper installation: check correct closing of each sensor. Keep probes and especially its contacts clean.

CT Probe Types and Options

SPQ-I250-3JCLA



Technical Specifications



Number of measured currents	SPQ-I250-3JCLA: 3 SPQ-I250-4JCLA: 4			
Nominal current	2A _{AC}	10A _{AC}	50A _{AC}	250A _{AC}
Measuring range	10mA ÷ 2,2A	50mA ÷ 11A	0,2A ÷ 55A	1A ÷ 280A
Measuring uncertainty	0,2% rdg. + 0,1% rng.			
Phase shift error	-0,5° ÷ +0,5°			
Bandwidth	40Hz ÷ 600Hz			
Permanent overload current	300A _{AC}			
Short overload current 1s	1kA _{AC}			
Measurement class	ČSN EN 61010-2-030 600V / CAT.IV (insulated wire) 300V / CAT.III (uninsulated wire)			
Safety	ČSN EN 61010-1, double insulation			
IP protection, pollution degree	IP40, 2			
Working temperature	-20°C ÷ +60°C			
Storage temperature	-40°C ÷ +85°C			
Humidity	85 % non-condensing			
Working altitude	2000m			
Storage altitude	12000m			
Weight	SPQ-I250-3JCLA : 570g SPQ-I250-4JCLA : 680g			
Dimensions: diameter of the wire cable length to probes amplifier cable length to amplifier	max. 13mm including insulation 2m Length 85mm × width 45mm × height 23mm 300mm			
Enclosure material	ABS			
Connector	LEMO push-pull self-latching connection system			

Maintenance, Service

For reliable operation the proper operational conditions must be met. If the product has a breakdown, you need to complain to the supplier (see header for address).

The product must be in a proper package to prevent damage in transit. Description of the problem or its symptoms must be delivered together with the product. If a warranty repair is claimed, the original filled warranty certificate (bellow) must be sent in. In case of an out-of-warranty repair you must enclose an order for the repair.

Supplier:

Manufacturer:

K M B systems, s.r.o.
Dr. M. Horakove 559
460 06 LIBEREC 7
tel. 485 130 314, fax 482 736 896
e-mail : kmb@kmb.cz , www.kmb.cz

Warranty Certificate

Warranty period of 24 months from the date of purchase is provided for the sensor. Problems in the warranty period, caused by a faulty workmanship, design or inconvenient material, will be repaired free of charge by the manufacturer or an authorized servicing organization.

The warranty ceases even within the warranty period if the user makes an unauthorized modification or changes to the instrument, connects it to out-of-range quantities, if the instrument got damaged in out-of-specs falls or by improper handling or if it has been operated in contradiction with the technical specifications presented.

type of product: **SPQ-I250**-..... serial number

date of dispatch:

final quality inspection:

manufacturer's seal:

date of purchase:

supplier's seal: