INSTRUCTION MANUAL

BU: EPBP – GPG: DIN Rail Products
Remote signaling panel with luminous and acoustic fault indicators
QSD-DIG 230/24

More information than that reported in this manual can be found at the below reported link:

https://new.abb.com/low-voltage/products/system-pro-m/abb-h-plus-line

General

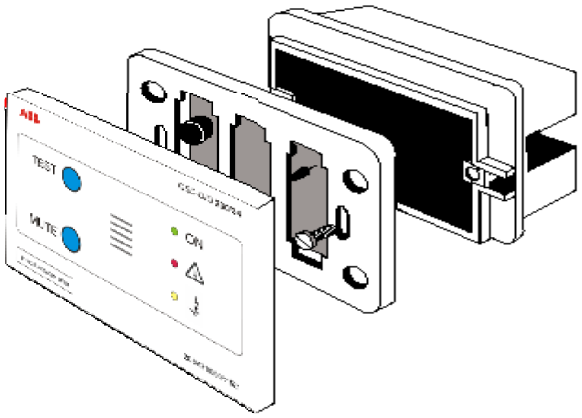
The QSD-DIG 230/24 is a device which offers remote indication of alarm signals caused by low insulation, electrical and thermal overloads in IT-M network systems. Alarms can then be displayed in rooms which are permanently attended by medical personnel.

It is possible to turn off the acoustic signal by means of the MUTE pushbutton and to perform periodic testing via the TEST pushbutton to verify that the QSD-DIG 230/24 is working correctly.

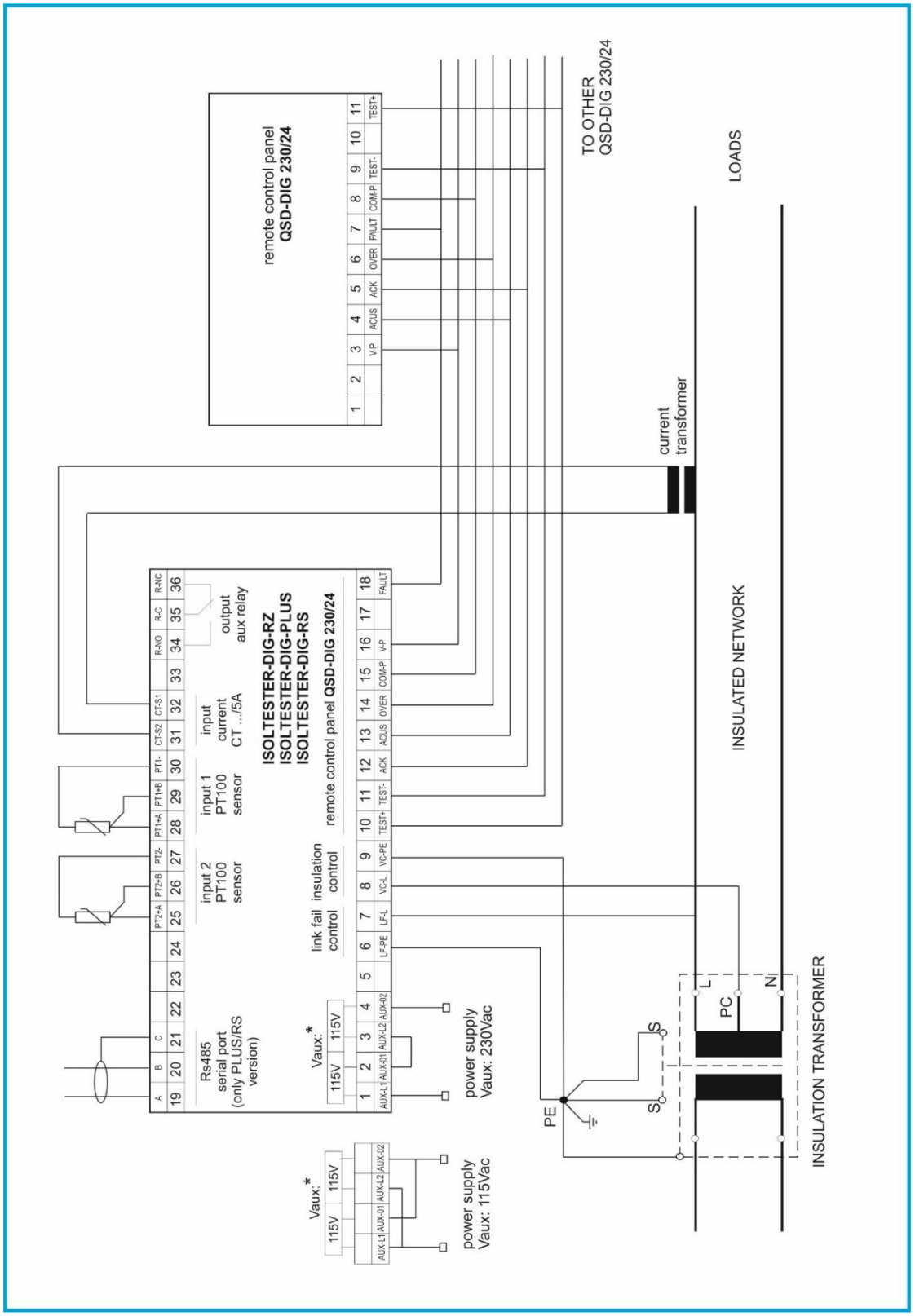
Code	Model	Voltage [V]	Frequency [Hz]
2CSM273063R1521	QSD-DIG 230/24	12-24	50-60
2CSM257093R1521	QSD-DIG 230/24V	12-24	50-60

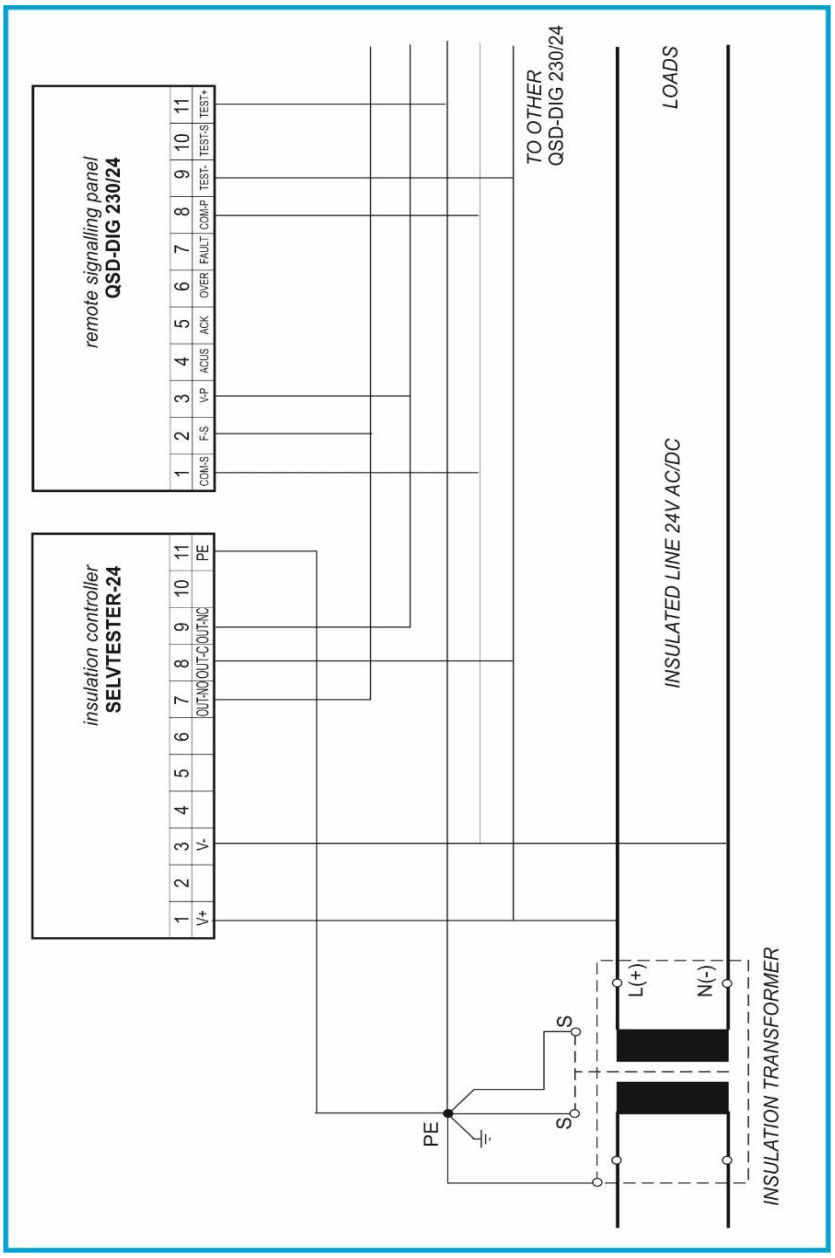
Installation

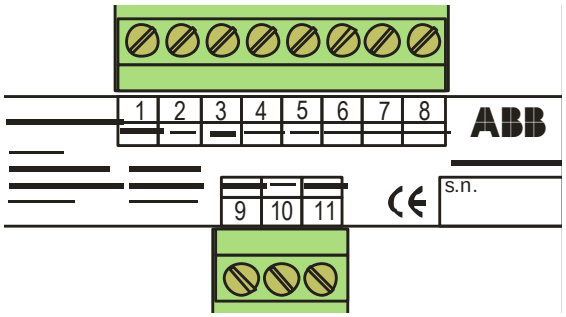
The installation must be carried out by qualified and authorized personnel only. Before installing, make sure that the device has not suffered any damage due to transport. It has to be verified that the supply voltage is compatible with the product's defined supply voltage.
When there are all the connections of the device, it's possible to supply the voltage to the network and the green LED ON will turn on.



Wiring diagrams



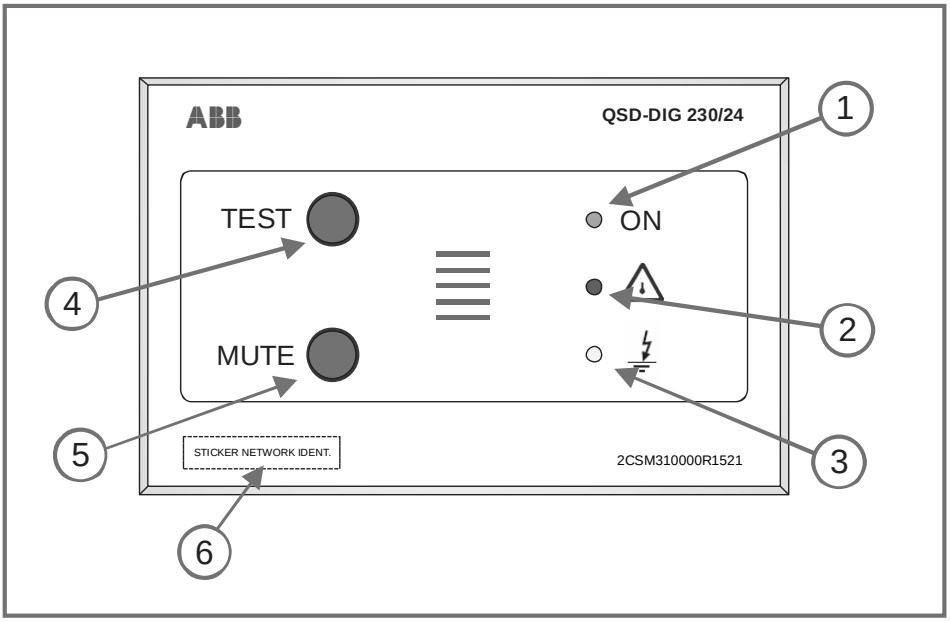

remote signalling panel
QSD-DIG 230/24
1 COM-S
2 F-S
3 V-P
4 ACUS
5 ACK
6 OVER
7 FAULT
8 COM-P
9 TEST-
10 TEST-S
11 TEST+
insulation controller
SELVTESTER-24
1 V+
2
3 V-
4
5
6
7 OUT-NO
8 OUT-C
9 OUT-NC
10
11 PE
TO OTHER
QSD-DIG 230/24
LOADS
INSULATED LINE 24V AC/DC
L(+)
N(-)
S
S
PE
INSULATION TRANSFORMER



Terminals description

Terminal	Name	Description
1	COM-S	common wire
2	F-S	low insulation alarm
3	V-P	power supply
4	ACUS	acoustic signal
5	ACK	mute
6	OVER	overload alarm
7	FAULT	low insulation alarm
8	COM-P	common wire
9 - 10 -11	TEST -, TEST-S, TEST+	test functions

Indications and buttons description



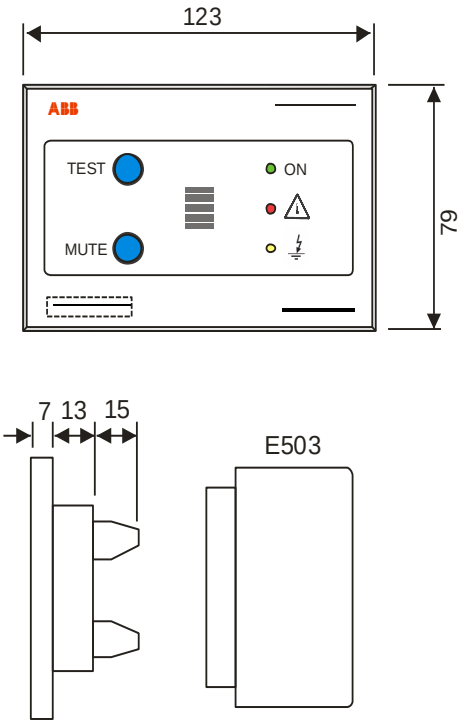
1. green LED: power on
2. red LED: network overload caused by temperature or current (only available with ISOLTESTER-DIG)
3. yellow LED: low insulation (system errors can also be displayed with ISOLTESTER-DIG)
4. TEST: push to verify if the product is working correctly
5. MUTE: switch acoustic signal off
6. Area available for labels

Key functions

Operation of the device

The device in the normal condition, with insulation value higher than the set value has the green LED on indicating the device is correctly connected to the network. Pressing the TEST button it is possible to perform an insulation level test of the system to verify its status.
In case of low insulation, the alarm signalling will be activated: the yellow LED will switch on and acoustic signaling will be activated too. The alarm signalling will disappear automatically only when the insulation level become higher than the one set as threshold.
Only by pressing the MUTE button on the panel it will be possible to turn the acoustic signaling off.
In case of electrical or thermal overload of the insulating transformer the red LED will switch on. The visual signaling of this condition will disappear only when normal operating conditions for transformer will be established.

Overall dimensions



Technical features

Item	Value
Power supply	12-24 V AC/DC
Power consumption	1.5 VA max.
Indicators	green LED ON red LED overload/overtemperature ALARM yellow LED insulation ALARM
Buzzer	Frequency 2400 Hz intermittant at 2 Hz
Pushbuttons	TEST MUTE
Terminals	Screw terminals max section 2.5 mm^2
Protection degree	IP40 front panel IP20 rear panel
Weight	200 g
Flush-mounting	3 modules box - E503
Operating temperature	-10 ÷ 60°C, max. humidity 95%
Storage temperature	-25 ÷ +80°C
Insulation	2500 V rms 50 Hz for 60 s
Reference standard	EN 61010-1 IEC 61557-8 IEC 60364-7-710 EN 61326-1

ABB group
Electrification
Products Division
Business Unit
Building Products

abb.com/lowvoltage
abb.com/buildings

2CSM444020D0201

Contact the technical assistance or refer to specific document for application don't described in this manual.

Remark

In consideration of the evolution of the products and standards, the company reserves the right to modify at any time the features of the product described in this literature, therefore we recommend to always verify them beforehand. The manufacturer's liability for damages resulting from product defects "may be reduced or deleted (...) when the damage is attributable jointly to a product defect and to the negligence of the injured party or to a third party for whom the injured one is responsible" (Article 8, 85/374/CEE)