



PAULWEGENER
MESSTECHNIK SEIT 1921

Operating manual

Isolation module for external supply

PWBlogg



Type: TEV8.2N7Ex1

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Design and specifications are subject to change without notice.

Intended use

The isolation module PWBlogg TEV8.2N7Ex1/.. for external supply is designed as dedicated operating resource for voltage supply of the data logger series N7/Ex1. Furthermore, communication connection between data loggers and modules of the series PWBlogg SM7 can be established. The isolation module is delivered with respective connection cables for this purpose. Types for mounting at a carrier rail or for wall fastening are optionally available.

The law, standards and guidelines as appropriate to the intended operation purpose must be followed. The isolation module is approved for appropriate and intended use out of the potentially explosive area.

Safety and warning notices

When installing, potential equalization must be performed alongside of the conductor track of the supply and data circuit within and out of the potentially explosive area.

Installation, start-up and maintenance must only be done by specialist staff. In doing so, any respective safety and accident prevention regulation must be followed.

Before start-up make sure that:

- connecting cables are professionally connected and undamaged,
- the earth conductor is connected,
- mechanic and thermic limits are not exceeded when operating.

Put the device out of action if it is damaged (including supply and discharge line), has been improperly burdened or stored and has faults respectively!

Servicing, maintenance and troubleshooting

The isolation module is maintenance-free during normal operation. No modifications must be carried out. Maintenance jobs to be done by customers restrict themselves to replacing fuses. Before opening the plastic housing, disconnect the isolation module from power supply.

When replacing fuses, the ones with parameters specified under *Technical specifications* must be used only. In case of further faults, check-up and repair will be exclusively done by manufacturer.

Contraventions release from any warranty and manufacturer responsibility!

Technical specifications:

EC type-examination certificate: IBExU13ATEX1128 X
 ignition protection type: II(2)G [Ex ib Gb] IIB

Supply:

safety-related maximum voltage (U_m) 250 V (Caution! Nominal voltage can be lower.)

Operating resources:

voltage U_o 9,14 V
 current I_o 509,6 mA
 wattage P_o 1,164 W
 maximum capacity C_o 34,0 μ F
 maximum inductance L_o 0,57 mH

Ex ib	IIB			
C_o [μ F]	34,0	23,0	9,6	0
L_o [mH]	0	0,02	0,15	0,57

Input:

voltage U_{Ne} 10..30 VDC
 current I_{Ne} \leq 50 mA

Output:

voltage U_{Na} 8,2 V \pm 2%
 current I_{Na} \leq 50 mA

Fuse supply current circuit:

manufacturer: Littelfuse / Cooper Bussmann
 type: 0216.125HXP / S501-125-R
 design: 5 x 20 mm
 nominal voltage: 250V AC/DC
 breaking capacity: 1,5 kA
 nominal current: 125 mA
 tripping speed: fast acting

Fuses communication circuits:

manufacturer: Littelfuse / Cooper Bussmann
 type: 0216.050MXP / S501-50-R
 design: 5 x 20 mm
 nominal voltage: 250V AC/DC
 breaking capacity: 1,5 kA
 nominal current: 50 mA
 tripping speed: fast acting

Ambient temperature:

-20 up to 60°C

Degree of protection:

IP65

Housing:

Al Si 12 / DIN 1725
 (weight proportion < 7,5% magnesium)

Dimensions w / h / d:

100 mm x 125 mm x 70 mm

Weight:

approx. 1 kg

EU-DECLARATION OF CONFORMITY

Herewith we declare that the isolation module type

PWBlogg TEV8.2N7Ex1

complies with the directive **2004/108/EG** in reference to electromagnetic compatibility and **94/9/EG** for use according to regulations in consideration of explosion-hazard areas. The data acquisition system was developed according to following harmonizing of standards:

- EN 61000-6-3:2011-09** subject basic standard for emitted interference – emitted interference for living quarters, business- and trade as well as small firms
- EN 61000-6-2:2011-06** subject standard for interference resistance – industrial sector
- EN 60079-0:2019-09** electrical equipment for potentially explosive atmosphere, section 0: general requirements
- EN 60079-11:2012-06** potentially explosive atmosphere, section 11: equipment protection by intrinsic safety „i“

Marking for intended use outside of explosion-hazardous areas:

 **II(2)G [Ex ib Gb] IIB**
-20 °C ≤ Ta ≤ +60 °C

EC type-examination certificate:

IBExU13ATEX1128 X

The quality management system is monitored by:

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7 – D-09599 Freiberg
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Manufacturer:

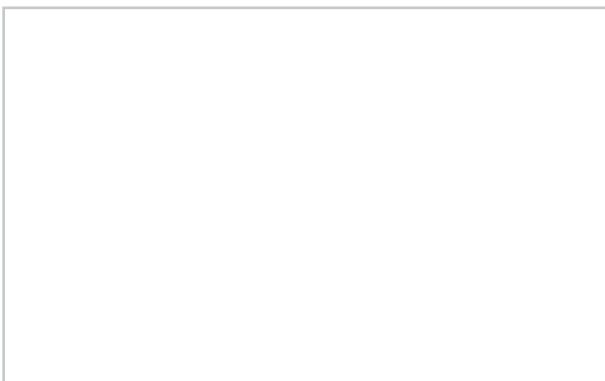
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The safety advice of the product documentation must be followed!

Ballenstedt, 09.03.2022



Wegener
Managing Director



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