








Series GLET

Accessory for dataloggers series GL in modular enclosure


Models:

-  **GLET-IU-BNC-BA4** – passive, conversion 4 ... 20 mA to 1 ... 5 V
-  **GLET-B513-KA-BA4** – passive, trigger / logic input, alarm output
-  **GLET-B513-KA-BA4-REL** – active, trigger / logic input, alarm output
-  **GLET-SG2K-BNC-BI5** – active, with 2-channel-strain-gauge-amplifier
-  **GLET-8B4K-BNC-BI5** – active, with base rack for up to 4x 8B amplifiers



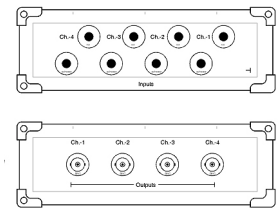
GLET-IU-BNC-BA4

Passive modular enclosure for conversion of 4 ... 20 mA to 1 ... 5 V

-  for datalogger GL900
-  signal input via integrated 4 mm banana jacks
-  Connection to datalogger via BNC

Passive modular enclosure for conversion of up to 4 signals 0(4) ... 20 mA to a precise signal 0(1) ... 5 V, e. g. for acquisition with a datalogger type GL900

- input signal: $I_{IN} = 0 \dots 20 \text{ mA}$ or $4 \dots 20 \text{ mA}$ ($U_{MAX} = 30 \text{ V}$)
- output signal: $U_{OUT} = 0 \dots 5 \text{ V}$ or $1 \dots 5 \text{ V}$
- high-precision resistances 250 Ohm (0.1 %)
- electrical connections measuring signal: 4 mm banana jacks
- electrical connections datalogger: BNC socket
- enclosure: desktop, stackable
- dimensions without connections (WxHxD): approx. 45 x 115 x 90 mm
- sealing: IP20
- operating temperature range: 0 ... +50 °C



Recommended accessory:

KA-BNC-iso-sw-0.5m (4 pcs.)

BNC safety connection cable with 2 straight BNC connectors

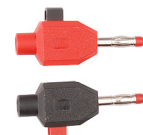
- material: PVC
- rating: 1000 V, CAT II (600 V CAT III)
- cable length 0.5 m
- color black



ADAPKLS4-rt / ADAPKLS4-sw

Clamp connector for direct connection of dismantled leads

- connector type: 4 mm banana
- wire cross section: 0.12 ... 2.5 mm²
- color: red or black
- configured for voltages up to 30 V maximum



GLET-B513-KA-BA4

Passive modular enclosure for trigger inputs, logic inputs and alarm outputs

for dataloggers GL800 and GL900

wiring via 4 mm banana jacks

Passive modular enclosure for trigger inputs, logic inputs and alarm outputs of dataloggers GL800 and GL900

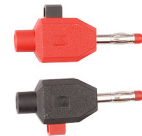
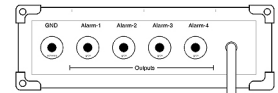
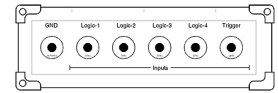
- alarm outputs: open collector (see datalogger specification)
- integrated 4 mm banana jack
- connection to datalogger: cable B-513
- enclosure: desktop, stackable
- dimensions without connections (WxHxD): approx. 45 x 115 x 90 mm
- sealing: IP20
- operating temperature range: 0 ... +50 °C

Recommended accessory:

ADAPKLS4-rt / ADAPKLS4-sw

Clamp connector for direct connection of dismantled leads

- connector type: 4 mm banana
- wire cross section: 0.12 ... 2.5 mm²
- color: red or black
- configured for voltages up to 30 V maximum



GLET-B513-KA-BA4-REL

Active modular enclosure for 1 trigger input, 2 logic inputs and 3 alarm outputs

for dataloggers GL800 and GL900

alarm output via relay contacts

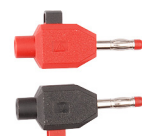
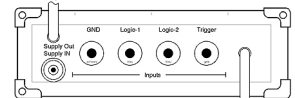
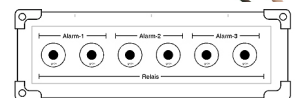
wiring via integrated jack

supply voltage: 12 ... 24 VDC

power supply unit supplied with datalogger can be used

Active modular enclosure for 1 trigger input, 2 logic inputs and 3 alarm outputs of dataloggers GL800 and GL900

- alarm output via relay contacts (2x closing contact, 1x opening contact)
- relay contact rating: max. 30 V, 0.5 A
- integrated 4 mm banana jack
- connection to datalogger: cable B-513
- supply voltage: 12 ... 24 V, feed through to datalogger via B-514 connector
- enclosure: desktop, stackable
- dimensions without connections (WxHxD): approx. 45 x 115 x 90 mm
- sealing: IP20
- operating temperature range: 0 ... +50 °C



Recommended accessory:

ADAPKLS4-rt / ADAPKLS4-sw

Clamp connector for direct connection of dismantled leads

- connector type: 4 mm banana
- wire cross section: 0.12 ... 2.5 mm²
- color: red or black
- configured for voltages up to 30 V maximum

GLET-SG2K-BNC-BI5

Active modular enclosure with 2 channel strain gauge amplifier

- for datalogger GL900
- connection via BNC
- transducer connection via Binder connector
- supply voltage: 12 ... 24 VDC
- power supply unit supplied with datalogger can be used



Active modular enclosure for connection of 1 or 2 strain gauge amplifiers with galvanic isolation between supply voltage and analog output

- no. of channels: 2
- sensitivity: 2 mV/V or 3 mV/V
- strain gauge supply: 5 V DC, max. 15 mA per channel
- analog output: 5 V or 7,5 V (max. 1 mA)
- frequency response: 1 kHz (-3 dB)
- signal output to datalogger via 2 x BNC
- strain gauge transducer connection via 5-pin Binder connector
- supply voltage: 12 ... 24 V, feed through to datalogger via B-514 connector
- enclosure: desktop, stackable
- dimensions without connections (WxHxD): approx. 45 x 115 x 90 mm
- sealing: IP20
- operating temperature range: 0 ... +50 °C

Recommended accessory:

KA-BNC-iso-sw-0.5m (2 pcs.)

BNC safety connection cable with 2 straight BNC connectors

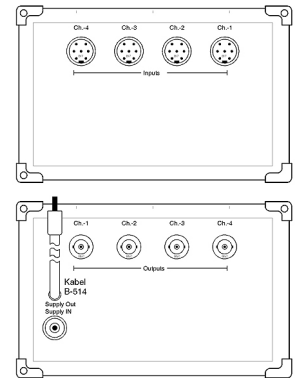
- material: PVC
- rating: 1000 V, CAT II (600 V CAT III)
- cable length 0.5 m
- color black



GLET-8B4K-BNC-BI5

Active modular enclosure with base rack for up to 4 8B-module amplifiers

- for datalogger GL900
- connection via BNC
- transducer connection via Binder connector
- supply voltage: 12 ... 24 VDC
- power supply unit supplied with datalogger can be used
- dimensions approx. 74 x 115 x 175 mm



Active modular enclosure with base rack for up to 4 8B-module amplifiers

- connection transducer side: 5-pin Binder connector (supplied with mating connector)
- connection to datalogger: 4 x BNC
- supply voltage: 12 ... 24 V, feed through to datalogger via B-514 connector
- enclosure: desktop, stackable
- dimensions without connections (WxHxD): approx. 74 x 115 x 175 mm
- sealing: IP20
- operating temperature range: 0 ... +50 °C

Recommended accessory:

KA-BNC-iso-sw-0.5m (4 pcs.)

BNC safety connection cable with 2 straight BNC connectors

- material: PVC
- rating: 1000 V, CAT II (600 V CAT III)
- cable length 0.5 m
- color black



8B-module amplifiers

Please see detailed specification for the 8B-module amplifiers in their respective datasheets.

General specification:

- ▶ 1500 Vrms isolation
- ▶ 240 Vrms input protection
- ▶ -40 ... +85 °C operating temperature range



DI-8B-32 / DI-8B-42 Current input modules

The amplifier modules DI-8B-32/-42 convert commonly used 4 ... 20 mA current signals to a proportional analog output voltage signal of 1 ... 5 V or 2 ... 10 V. Additionally, an isolated 15 V loop supply voltage (DI-8B42 only) is provided for transmitter excitation. A high-precision resistance for plugging into the board is supplied with the module. The galvanic isolation reduces noises and the effect of ground loops, which is barely avoidable in large and complex measuring setups.

DI-8B-32 / DI-8B-42 overview:

- ▶ input 4 ... 20 mA
- ▶ sensor excitation 15 VDC (DI-8B-42 only)
- ▶ output +1 ... +5 V or +2 ... +10 V
- ▶ common mode rejection 100 dB
- ▶ accuracy ± 0.05 %
- ▶ linearity ± 0.02 %
- ▶ bandwidth 100 Hz
- ▶ supply voltage +5 V

DI-8B-34 Linearized 2- or 3-wire RTD modules

The amplifier modules DI-8B-34 are designed for Pt100 sensor excitation and signal conditioning. The Pt100 resistance value varies with the temperature, i. e. the module with Pt100 sensor provides an output voltage of 0 ... 5 V proportional to the temperature. Since the resistance gradient over temperature is not a linear line, the signal is linearized by the module.

DI-8B-34 overview:

- ▶ PT100 sensor input 2-,3-wire
- ▶ output 0 ... 5 V
- ▶ common mode rejection 120 dB
- ▶ accuracy ± 0.05 %
- ▶ linearity ± 0.02 %
- ▶ bandwidth 3 Hz
- ▶ input resistance <30 Ohm
- ▶ supply voltage +5 V

DI-8B-35 Linearized 4-wire RTD modules

The amplifier modules DI-8B-35 are designed for Pt100 sensor excitation and signal conditioning. The Pt100 resistance value varies with the temperature, i. e. the module with Pt100 sensor provides an output voltage of 0 ... 5 V proportional to the temperature. Since the resistance gradient over temperature is not a linear line, the signal is linearized by the module.

DI-8B-35 overview:

- ▶ interface to 100 Ohm platinum resistance thermometer, 4-wire
- ▶ output 0 ... 5 V
- ▶ common mode rejection 120 dB
- ▶ accuracy ± 0.20 °C
- ▶ bandwidth 4 Hz
- ▶ input resistance 50 MOhm
- ▶ supply voltage +5 V

DI-8B-36 Potentiometer input module

The module amplifier DI-8B-36 (potentiometer input module) filters, isolates, amplifies a single potentiometer input and provides an analog output signal (0 ... 5 V). This voltage output is controlled by a TTL logic input. The DI-8B-36 modules are designed with a completely isolated output circuit. The potentiometer excitation is provided by using two matched current sources. When using a 3-wire potentiometer, this method allows canceling the effects of lead resistances. The excitation currents are small which minimizes the self-heating of the potentiometer.

DI-8B-36 overview:

- ▶ interface to potentiometers up to 10000 Ohm
- ▶ output 0 ... 5 V
- ▶ common mode rejection 120 dB
- ▶ accuracy ± 0.05 %
- ▶ linearity 0.02 %
- ▶ bandwidth 3 Hz
- ▶ input resistance 50 MOhm
- ▶ supply voltage ± 5 V

DI-8B-38 Strain gauge input module

Each module amplifier DI-8B-38 (strain gauge input module) is a single input channel, which is filtered, isolated, amplified and converted to an analog output signal (0...5 V or ± 5 V). These modules can interface to full- or half-bridge strain gauges with a resistance of 100 ... 10000 Ohm or 300 ... 10000 Ohm. The bridge excitation is provided from the module with a stable 3.33 V or 10 V voltage source.

DI-8B-38 overview:

- ▶ interface to full or half bridges
- ▶ bridge excitation 3.33 V or 10.00 V
- ▶ bridge resistance 100 ... 20000 Ohm or 300 ... 20000 Ohm
- ▶ output ± 5 V
- ▶ isolation 1500 Vrms
- ▶ input protection 240 Vrms
- ▶ common mode rejection 100 dB
- ▶ accuracy ± 0.05 %
- ▶ linearity 0.02 %
- ▶ bandwidth 3 kHz
- ▶ input resistance 50 MOhm
- ▶ supply voltage +5 V

DI-8B-45 Frequency input module

Each frequency input module DI-8B-45 converts the applied input frequency (0 ... 500 Hz to 0 ... 100 kHz) to a galvanic isolated output voltage of 0 ... 5 V. The frequency input signal can be a TTL signal or a signal with zero-crossing, but these input signals have to be connected in different ways. The galvanic isolation reduces noises and the effect of ground loops, which is barely avoidable in large and complex measuring setups.

DI-8B-45 overview:

- ▶ input 0 ... 500 Hz to 0 ... 100 kHz
- ▶ output 0 ... 5 V
- ▶ common mode rejection 100 dB
- ▶ accuracy ± 0.10 %
- ▶ linearity ± 0.05 %
- ▶ supply voltage +5 V

Preview – further GLET Accesory:

GLET-B514-KA-bat: Additional battery block for a longer power-supply-independent operation (GL2/8/900)

GLET-S3L-BA2/B514-BI5: Interface and excitation box for active sensors (GL200 and GL800)

GLET-S3L-BNC/B514-BI5: Interface and excitation box for active sensors (GL900)

GLET-TCmini-TMEBx-KA: Interfacebox with mini connector for thermoelements (GL200/800/900)

Our policy is to improve specification of our products continuously, so technical and production details can be changed without any notice.

