



Junction box GLET-SI/SU-xxx



Example picture

GLET-SU(2K)-BA2 / B514-BI5
GLET-SU(2K)-BNC / B514-BI5

GLET-SI(2K)-BA2 / B514-BI5
GLET-SI(2K)-BNC / B514-BI5

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■ 1 General Information

To ensure reliable and safe operation, this junction box must be operated in compliance with the specifications according to this technical description only. These regulations must also be observed if accessories, that have been ordered from Althen Mess- & Sensortechnik GmbH together with the box being used.

Notice: Every person who is in charge for the start-up or service of this measuring amplifier / junction box must have read this technical manual and must have understood the safety instructions in particular.

■ 1.1 Safety Instructions

When using the junction box, the legal- and safety regulations for each case of application must be observed. To avoid risks for the system or the operator the following points are to be considered.

- If any visual damage or malfunctions is noticed, the measuring system must be switched off and marked appropriately.
- Disconnect the supply voltage before opening the device.
- The complete measuring unit must be protected against contact and influence of unauthorized persons.
- In the case of a safety-relevant application, where a potential malfunction could cause damage to property or persons, it is imperative that an additional, independent monitoring is provided.
- In combination with sensors, the maximum loads / pressures etc. must never be exceeded.

■ 1.2 Qualified Personnel

This measuring system must be operated by qualified personnel and in compliance with the relevant technical specifications only. Qualified personnel include such persons who are conversant with the setting up, mounting and starting up of the measuring system and who have qualifications that are appropriate for the tasks they're about to perform.

■ 1.3 Intended Use

GLET boxes from Althen Mess- & Sensortechnik GmbH serve to measure the intended measurand and the evaluation thereof in combination with one or more sensors, or the easy connectability of alarms, logic/trigger impulses, as well as the easy plug-in for standard current loops. For use in combination with data-loggers of the GL-series. Any other use over and above that, is regarded as non-intended use.

■ 2 Technical description

The described GLET-SI/SU-box serves to supply one to 3 active sensors with up to 19 Volts and, depending on the version of said sensor, converting the 4 ... 20 mA signal from it to a logger readable voltage of 1 ... 5 V., or just loop through the voltage signal from an according sensor.

■ 2.1 Terminal assignment

Applies for all channels.

PIN	3-wire 0...10 V	2-wire 4...20 mA	3-wire 4...20 mA
1	+ excitation	+ excitation	+ excitation
2	signal (Uin)	n.c.	n.c.
3	n.c.	signal (Iin)	signal (Iin)
4	n.c.	n.c.	n.c.
5	GND	n.c.	GND

■ 3 Datasheet

Supply voltage:	24 VDC	Electronics protected against voltage reversal
Excitation voltage:	18 VDC (max. 30 mA)	Other voltages on request
Number of channels:	1 (with Version SI / SU), 2 (with Version SI2K / SU2K)	
Input:	0(4)...20 mA 2-wire or 3-wire 0...5/10 V 3-wire	GLET-SI-BA2(BNC)/B514-BI5 GLET-SU-BA2(BNC)/B514-BI5
Connecting-plug for sensor:	5-pin Connector	
Electrical connection for analogue output:	Connector 2 mm BNC-Connector	(Version -BA2-), Kabel B-514 (Version -BNC-), Kabel B-514
Precision-Shunt-Resistant:	250 Ohm (only with version -SI-)	
Enclosure:	Desktop housing (IP20)	
Dimensions (W x H x D):	115x 45 x 90 mm	
Analogue output:	0(1)...5 V 0...5/10 V	Version -SI- Version -SU-
Protection-class:	IP-20	
Operating temperature:	0 °C ... +50 °C	

■ 4 Maintenance

The flawless function and calibration of the whole measuring system is to be checked regularly. This inspection is also necessary after every repair or change of any component of the measurement system.

■ 5 Old appliances disposal



According to European and German law, it is prohibited to dispose of old electronic devices by household waste, but must be collected and disposed of separately.

Amplifiers and measurement units manufactured and sold by Althen Mess- & Sensortechnik GmbH serve B2B purposes only. Therefore, those old appliances must not be given to the communal disposer, but must be given back to the seller or disposed of properly. If you need any further information, please contact your local authorities.

These measures serve to protect the environment and allow recycling and recovery of valuable materials. Furthermore, do electronic devices contain substances that may cause damage to the environment if burned or dumped with normal household waste.

Subject to modifications.

All information describe our products in general form.