

GMUX



MAIN FIELDS OF APPLICATION

- Geotechnical engineering
- Hydrology
- Meteorology

Acquisition module for all types of analog instrumentation, designed to be used in geotechnical, structural and environmental monitoring



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GMUX is an acquisition module for all types of analog instrumentation, designed to be used in geotechnical, structural and environmental monitoring.

The module is created as an accessory device to a G801 or G802 data-logger, with which it is connected via cable or via radio.

GMUX can read different types of sensors with different signal types (4-20 mA, mV/V, V) and all the vibrating wire instruments.

It is also possible to read thermistor sensors as Pt100, NTC, etc. Upon request of one of the input digital channels, coming from a G801 or G802 module, GMUX provides the correct power supply to the analog channel, and, after some time (which can be set and changed), starts the acquisition of the electric signal.

The information turns back to the G801 or G802 module, which has requested it (always on the same digital channel). So, you can connect more than one GMUX to the same digital channel but in this case every GMUX should be identified by a unique code.

GMUX is available in four versions: from 4 channels up to 16 channels (including also 8 and 12 channels).

GMUX Technical Features

- Supply:	12 VDC. Optional 110/220 Vac or solar panel;			
- Current supply:	120 mA, V input, No load; 95 mA, mV/V input, No load; 125 mA, 4/20 mA 2 Wires input; 85 mA, PT100 input; 70 mA, NTC input; 83 mA, VW input;			
- Current Standby:	0 uA, Communication and supply through RS485 port; 320 uA, Communication RS485 port, supply by local battery; 0 uA, Communication RS485 port, supply by local battery through BSM; 30 uA, Communication Radio port, supply by local battery.			
- Operating temperature:	From -20° to +70°C;			
- Protection:	Defined by the box type;			
- MUX channels nr:	4 + 4	8 + 8	12+12	16 + 16
- Dimensions mm:	48	72	97	122 x101 x119
- Weight:	277 g.	405 g.	533 g.	656 g.
- Measuring type:	V, mV/V, 4/20 mA, VW, Pt100, NTC;			
- N ° Multiplexer supported:	Up to 254 for RS485 port, max 508;			
- N ° Channels supported:	Up to 32 for MUX, max 16320;			
- Measurement resolution:	24 bit: V mV/V, 4/20 mA, Pt100, NTC; 0.1 Hz: vibrating wire;			
- Supply voltage	+ 20 V, + 12 V, +/-12 V, + 5 V;			
- MUX communication type	RS485, Dust Network radio 2.4 GHz.			