



General presentation

OPEN LINK

Data exchanges possible on the fieldbus:

- digital data on PLC input for each measuring channel: (format: 16 or 32 bits with polarity sign)
 - gross, tare, net,
 - output (derived),
 - minimum and maximum values stored,
 - weight unit, weighing capacity and weighing range. (format: bits grouped in words)
 - measurement status: validity, stability,
 - weighing value refreshed or not,
 - status of 4 thresholds, measurement lower or higher than threshold,
 - command status: executed or not, correct or not.
- executable commands on PLC output for each measuring channel:
 - addressing of a measuring channel and of a digital data,
 - selection of the stability and filtering criteria,
 - selection of the time basis for a derivation,
 - zero reset, taring,
 - load cell test (open circuit or short circuit),
 - adjustment of the measuring channel,
 - loading of the threshold values as a gross or net weight, or derived.

Programming by ALOGRAF® workshop.

OPEN NET

Data exchange possible on the fieldbus:

- digital data on PLC input for each instrument: (format: integer, 16 or 32 bits with polarity sign),
 - gross, tare, net,
 - measuring unit (coded by number),
 - number of decimals of the measured values,
 - measuring status: stability, validity, instrument at zero,
 - command status: executed or not, correct or not.
- executable commands on PLC output for each instrument:
 - zero reset,
 - taring.

OPEN LINK and OPEN NET are equipped with a serial port dedicated to their configuration and setting by means of a terminal or a PC in terminal mode (RS232).

Optionally they may be equipped with an extra serial port used for data transmission with the **MODBUS®** protocol (**MODBUS®** slave for **OPEN NET**) (RS 232 or RS 485).

Applications

OPEN LINK, equipped with an **OPEN-IS*** coupler, has two functions:

- a measuring function:
 - handling of analogue signals generated by one or more strain gauge load cells,
 - digital conversion into a weight unit (g, kg, t).
- a communication function by fieldbus: fast transfer of the weighing data to a real time process **Interbus-S®**.

By its modular conception, OPEN LINK may be equipped with 1 to 4 measuring channels. Each module contains its own parameter settings and may, without adjustment, be exchanged against another module.

OPEN NET, equipped with the **OPEN-IS*** coupler, is used for the exchange of data between PRECIA-MOLEN instruments equipped with the A+ protocol and PLCs **Interbus-S®**.

OPEN NET may control 1 instrument with an RS232 interface and up to 5 instruments with an RS485 interface.

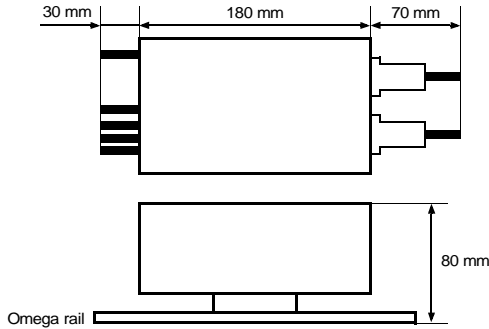
European Conformity

- Directive 89/336/EC with respect to Electromagnetical Compatibility.

* OPEN-IS fully uses the Interbus-S® network bus, which has been developed by PHOENIX CONTACT.

Physical characteristics

- Dimensions
 - Width 180 mm
 - Height 105 mm
 - Depth 70 mm
- Mounting: on 35 mm Omega rail
- Weight approx. 0,8 kg
- Industrial protection IP 43
- Installation characteristics:



Electrical characteristics

Power supply

- Voltage 10 to 30 V
- Max. current
 - with 24 V 250 mA
 - with 12 V 500 mA
- Connection Screw terminal

Environmental conditions

- Temperature range:
 - Operation - 10 °C / + 50 °C
 - Storage - 20 °C / + 60 °C

Metrological characteristics open link transmitter

- For temperatures between - 10° C to + 50° C :
 - input signal 0,5 µV
 - number of divisions 6 000
- For temperatures between ± 5° C :
 - input signal 0,05 µV
 - number of divisions 60 000
- Load cell connections:
 - Excitation voltage 5 V ~
 - Sensitivity 1 to 12 mV/V
 - Connection 4 or 6 wires
 - Minimum impedance 60 Ω
 - Maximum cable length:
 - cable 88 Ω / km 100 m
 - cable 32 Ω / km 200 m
 - Connection Screw terminal
- Minimum deadload signal 0,01 mV
- Number of measurements available per second on the fieldbus 36 to 144
- Adjustable digital filtering

Fieldbus characteristics

- Communication (remote Bus type 1) : RS485 full duplex
- Pilot LEDs signalling the activity of the bus: RD, BA, RC
- Cable : 4 wires
- Connector 9 SubD male (Incoming) and female (Outgoing)
- Transmission speed 500 kB
- Communication area
 - Area format (input or output) 10 words
 - Simultaneous access to the data of all instruments connected.
 - The threshold bits may directly be connected to Interbus-S switches by using the couplers' Reflex actions which are independant of the PLC cycle time.

Options & Accessories

- Isolated or non-isolated RS232 or RS485 communication port.
- Powered for power supply adapter
- Powered for glass fiber converters.

Your weighing specialist

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