Q.bloxx XL F108





All the benefits of fiber optic measurement without the hassle. The F108 Optical Gage Amplifier seamlessly integrates with the Q.series-X data acquisition platform. Benefit from the modularity and versatility of the Q.series X product line to address any of your measurement challenges. Connect with Gl.bench software for the quick and easy setup fo your multi-channel DAQ system for Gl.cloud-based storage and monitoring.

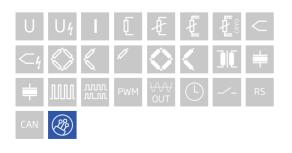
- RS485 fieldbus interface up to 48 Mbps: LocalBus, up to 115.2 kbps: Modbus-RTU, ASCII
- Connectable to Controller Q.station X

- Electromagnetic Compatibility according to EN61000-4 and EN55011
- Power supply 10 ... 30 VDC
- DIN rail mounting (EN60715)



Key Features

- 8 Universal optical input channels Strain up to 1,100 µm/m Pressure up to 10,000 PSI Acceleration up to 1,000 g (peak) Temperature up to 1,000 °C
- High Sampling Speed Measurement bandwith up to 50 kS/s
- Long transmission distance up to 25 km
- Electrical Noise Immunity & Complete Isolation
- Low measurement uncertainty Complete measurement chain capable of achieving a maximum uncertainty of ±0.5% FSO from transducer to digitization. For temperature, this equates to ±0.5°C over a 200°C range.
- Typical operating environments Cryogenic and ultra-high temperature Electromagnetic radiation High-voltage Ionizing (gamma) radiation Hazardous areas



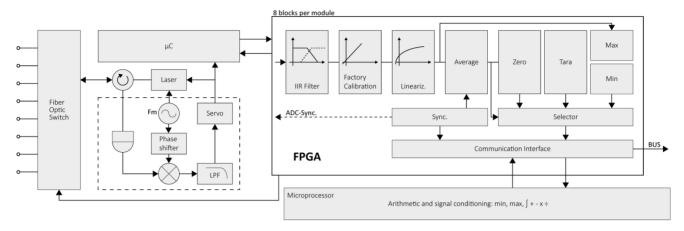


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Optical Gage Amplifier

Block diagram



Technical Data

Optical Inputs

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Channels	1 to 8
Supported transducer types	Temperature, strain, pressure, acceleration, vibration, displacement
Single channel sampling rate	10 k samples per second (kS/s)
Multi channel sampling rate	5 sample per second (S/s)
Connector	E2000 APC
Wavelength-range	1548 nm - 1552 nm
Wavelength resolution	0.1 pm
Uncertainty	± 5 pm
Repeatability	±1pm
Laser specification	Class 1 laser

Communication Interface

Protocols	proprietary Localbus (115200 bps to 48 Mbps, latency <100 ns) ASCII (19200 bps to 115200 bps) Modbus RTU
Data format	8E1
Electrical standard	ANSI/TIA/EIA-485-A, 2-wire

Input Power

Input voltage	10 to 30 VDC, overvoltage and overcurrent protection
Power consumption	approx. 15 W

Environmental Specifications

Electromagnetic compatibility (EMC)	IEC 61326-1
Operating temperature	0 °C to 50 °C
Storage temperature	-40 °C to 85 °C
Relative humidity	5 % to 95 % at 50°C, non-condensing

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Remarks

Warm-up time	Validity of all listed specifications are subject to a warm-up period of at least 45 minutes
	Specifications subject to change without notice

Mechanical information

Material	Aluminum and ABS
Measurements (W x H x D)	60x 145 x 135mm
Weight	approx. 700 g

Ordering Information

Article number	606929

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