

GLE/SmartZOC-200R

Compact & Rugged Control+Acquisition unit for Pressure Scanner Modules

Main Features

- 16, 32 or 64 channels ZOC Pressure Scanner input
- 16 bit AD resolution / System Accuracy: 0.1% F.S. or better
- USB 2.0 for setup and data output, RS 232 / 422 for data output
- Zero and Gain Calibration capability
- Wide temperature range / Extended voltage DC supply range
- MS-Win SW GUI for setup, data display and storage



Description

GLE/SmartZOC-200R is a stand-alone data acquisition unit for Scanivalve's ZOC Pressure Scanner Modules. Based on a "system on chip" FPGA + ARM controller, it can be connected to one 16, 32 or 64 channels ZOC module providing: voltage supply, scanning sequence control, conditioning of ZOC's analog pressure transducers and of its internal RTD and 16 bit A/D conversion.

Continuous monitoring of the ZOC's internal temperature, allows on-line correction of pressure transducers temperature drift.

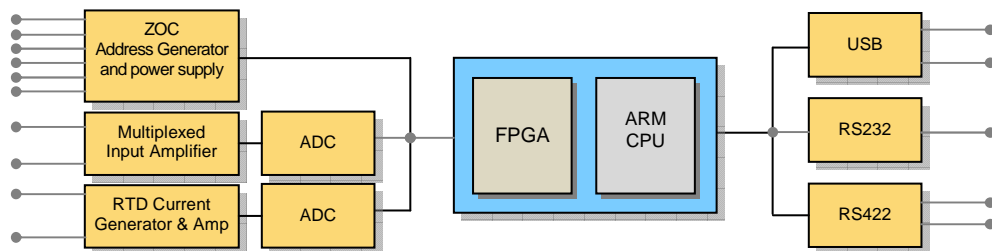
Output data is available via USB 2.0 or RS 232 / 422 interfaces.

A software GUI allows the definition of measurement and acquisition set-up as: scanning speed, number of active channels, interface parameters,

definition of engineering unit, data averaging and data visualization...

Thanks to a robust construction, GLE/SmartZOC-200R is particularly suitable in all applications where space is a premium, ruggedness and wide temperature range are necessary, especially where reliability and high accuracy are mandatory.

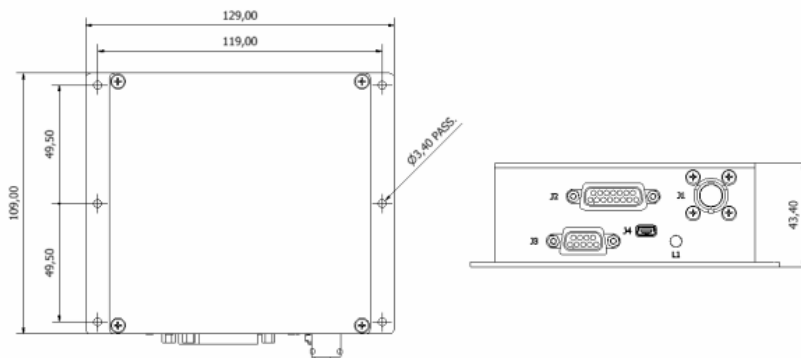
Block Diagram



Main Characteristics

| | |
|------------------------|--|
| Input compatibility | ZOC17, ZOC22B, ZOC23B, ZOC33, ZOCEIM Scanivalve's modules |
| Digital Interfaces | RS 232 / 422 data output up to 1 Mbaud; USB 2.0 full speed for setup and data output |
| A/D / Accuracy | 16 Bit / $\geq 0.1\%$ FS, accordingly to the used Pressure Scanner |
| Scan-Rate | up to 2000 S/Ch/s |
| Power Supply | 18 \div 36 VDC @ 6 Watt max including ZOC module |
| ZOC Power Supply | ± 15 VDC, 150mA max (internally regulated and isolated) |
| I/O Connectors | Power: 3 pins MS bayonet; ZOC: D-Sub 15 pins; RS 232 / 422: D-Sub 9 pin; USB: mini-B |
| Enclosure: | EMI/EMC shielded, milled aluminum box, Alodine coated; approx. 550 grams |
| Shock & Vibration | Certifiable per MIL-STD 810F |
| Temperature / Humidity | Operating: -40 \div +85°C / 0 \div 95% RH non-condensing |

Mechanical dimensions (GLE/SmartZOC-200R)



GLE/SmartZOC-200I is the industrial version of GLE/SmartZOC-200R available in a cheaper but still very robust package.

Due to continuous developments, specifications are subject to change without prior notice.

This product is not intended for applications whose its failure to perform can be expected to cause damages to properties and/or persons and/or injury to human life.

GreenLake Engineering Srl

the engineering branch of Instrumentation Devices

Via Acquanera 29 22100 COMO - Italy

ph +39.031.521.076 - fax +39.031.507.984 - info@greenlake-eng.com

www.greenlake-eng.com