



## SmartZOC

### Ethernet based Data Acquisition System for Scanivalve's ZOC Electronic Pressure Scanners

Miniaturised data acquisition unit specifically designed to be interfaced with Scanivalve's Electronic Pressure Scanning modules. This unit can be directly connected to one 16, 32 or 64 channel pressure scanner and provides regulated and isolated voltage supply, the conditioning for the analog pressure transducers and the ZOC's internal temperature sensor and the 16 bit A/D conversion of input signals. Thanks to the continual monitoring of the ZOC's internal temperature it is also possible to perform a very accurate on-line correction of the pressure transducers temperature drift. The acquired data is then made available to the Ethernet bus or the auxiliary RS232 interface output.



#### Main Features

- Wide Temperature Range
- Scan rates of up to 2000 Scans/channel/sec
- Accuracy to 0.08% FS
- Rugged and RF shielded enclosure
- Easy to use Windows based software
- Low power consumption
- AD resolution = 16 bit
- Zero and gain calibration capability

#### Applications

- Flight testing
- Wind Tunnel testing
- Turbine Engine Testing
- Pressure Measurement
- Automotive / Railway Industries
- Aerospace
- Research and development
- Manifold Turbulence

The robust construction on the SmartZOC means that it is particularly suited to all applications where space is at a premium (it weighs in at just 250g), ruggedness, wide temperature range (-40°C to 70°C), high performance, reliability and accuracy (up to 0.08% FS) are mandatory requirements.

This versatile device allows the user to set up; scanning speed, number of active channels, the communication interface parameters, the preferred data output interface (ethernet/RS232), engineering units, data averaging and numerical or graphical data visualization.

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