## **ATMOSPHERIC PRESSURE**







- Wide range of models with technical specifications for meteorological applications
- Analogue outputs (DQA240A.1, DQA801)
- RS485, Ethernet digital outputs (DQA251)
- Very good accuracy: ±0,15 hPa (@20°C) ±0,20 hPa (-40...60 °C) (DQA251)
- ONH, QFE, QFF measurements (DQA251+Alpha-Log)
- Alpha-Log data logger is equipped with internal pressure sensor. In the data sheet of the data logger, technical specifications of this sensor are described (Read Alpha-Log column)

Sensors designed for accurate measurement of atmospheric pressure. DQA240A.1 is more suitable for LSI-LASTEM data acquisition systems (0-1Vdc output). DQA801 is also suitable for integration in third party systems (0/4...20 mA output), its range is locally selectable by trimmer. DQA251 is a high precision instrument for absolute pressure, QNH, QFE, QFF. Long-term stability and a web interface make it the perfect instrument for professional acquisition systems, meteorology and aviation. Heavy duty enclosure IP67, allows an easy installation also in harsh environmental conditions. DQA251 sensor is built according WMO and ICAO standards.

## **Technical Specifications**

PN	DQA240A.1	DQA801	DQA251	Alpha-Log
	Less Au Longs (CA)		Digital Saramater	
Output	01 V	0/420 mA	Modbus on RS485; Modbus on TCP-IP, Lan-Ethernet; autosending on RS232 (ASCII file every 3"), FTP (SDI12 Optional)	Read Data-Logger spec.
Measurement	Absolute Pressure		Absolute Pressure QNH, QFE, QFF according to CIMO/ET-Standard- 1/Doc.10 (20.XI.2012) WMO -2012	
Number of transducers	1		1 (optional 3)	1
Memory	NO		128 Mb (about 3 years measurements)	Read Data-Logger
Data display	NO		<ul> <li>by built-in LCD 2x24 chr display</li> <li>by web-browser on a connected PC (charts and numeric values)</li> </ul>	Read Data-Logger spec.
Data download	NO		Last 30 days measurements in Excel and ASCII files by Ethernet port	Read Data-Logger spec.

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PN	DQA240A.1	DQA801	DQA251	Alpha-Log	
Power supply	1014 Vdc	1030 Vdc/ac	1030Vdc	Read Data-Logger spec.	
Power consumption	0.25 W	0.5 W	<0.6 W (~45mA @ 12Vdc)	Read Data-Logger spec.	
Accuracy	±0.5 hPa		±0.15 hPa (@20°C) ±0,20 hPa (-4060 °C)	±1 hPa	
Thermal drift	Compensated into the range: 1060°C. Drift in the range-2010°C: -0,025 hPa/°C		Compensated into the range: -4060°C	Compensated into the range: -2085°C	
Range	8001100 hPa	Default: 8001100 hPa (selectable 6001100 hPa, 7001100 hPa)	5001200 hPa	5001100 hPa	
Linearity	NA	NA	±0.1hPa / <0.05hPa	NA	
Resolution	0.1	hPa	0.01 hPa	0.084 hPa	
Time constant	2 s				
Response time	0.5 s		0.1 s	0.1 s	
Long term stability	<±0.5hPa/year		<±0.1hPa/year		
Calibration	Data Logger setup By trimmer		By internal software		
Calibration certificate	Not included		Included	Not included	
Maximum pressure limit	2000 hPa		3000 hPa		
Principle		Piezore	sistor		
Protection	IP43	IP65	IP67	IP43	
Weight	0.2 kg	0.3 kg	1 kg	Read Data-Logger spec.	
Installation	Inside ELFxxx enclo- sures	On DYA078 bracket	On DIN bar	Read Data-Logger spec.	
Cable	Included, L=20 cm	See Accessories	Included	-	
Operative temperature	-4085°C		-3080°C	-4080°C	
Data logger compatibility	M-Log (ELO008) R-Log (ELR515) E-Log Alpha-Log		Alpha-Log Using RS232->485 converter: M-Log (ELO008) R-Log (ELR515) E-Log	NA	



## **Accessories**

	DWA505A	Cable L=5 m for DQA801	
	DWA510A	Cable L=10 m for DQA801	
	DWA525A	Cable L=25 m for DQA801	
123	DWA526A	Cable L=50 m for DQA801	
	DWA527A	Cable L=100 m for DQA801	
	MG2251.R	7 pin free female connector	
	DYA078	Support for DQA801 with radiant shield.	
	SVICA5001	Calibration certificate/ISO9001 type (Absolute pressure)	
	SVACA5006.1	Calibration certificate/ISO17025 type/N.6 points (Absolute pressure)	

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