



Technology Sheet

Diver-DXT – AS400/AS401

General

Diameter	Ø 58-23 mm
Length	200 mm (including chassis connector)
Weight	Approx. 100 grams
Wetted parts	Polypropylene casing, Viton® and MBR o-rings, Cu Zn/Ni connector
Protection	IP67 (100 cmH2O water pressure (over pressure for 7 days) for flooding situations)
Operating temperature (OT)	-20 °C to 60 °C -20 °C to 80 °C (not guaranteed within specs)
Storage / transport temperature	-40 °C to 85 °C (affects battery life time)
Battery life	5 years @ OT, depending on operation and max 3,000 connections, 30,000 memory block reads and 1,000 full settings
Battery replacement	User replaceable
Compatible equipment	Mini-Diver (DI5xx), Micro-Diver (DI6xx), Cera-Diver (DI7xx) and CTD-Diver (DI27x)





Datalogger barometer (AS401 only)

Storage capacity	24,000 measurements (non-volatile memory)
Measuring interval	1 hour
Measuring method	Fixed time based
Clock accuracy	Automatic synchronization with attached Diver
Recorded parameter	Barometric pressure and temperature

Pressure

Sensor	Piezoresistive silicon micromachined sensor
Range	(400 to 1150) cmH ₂ O
Accuracy	±2.5 cmH ₂ O (max) @OT for 900 to 1150 cmH ₂ O ±3.5 cmH ₂ O (max) @OT for 400 to 900 cmH ₂ O
Resolution	0.1 cmH ₂ O
Absolute maximum pressure (MP)	1.5 bar (absolute)
Absolute maximum burst pressure	2 bar (absolute) @ 1 s
Long term stability	±2 cmH ₂ O/year (typ) @ OT

Temperature

Sensor	Silicon temperature sensor
Range (Full Scale)	-20 °C to 80 °C
Accuracy @ OT	typ ±0.8 °C max ±1 °C
Resolution	0.1 °C

Radio

Radio frequency (central frequency)	2.405 GHz (channel 11)
Transmit power	100mW, 20dBm
Scan-for-host period	14 seconds (07.00AM-07.00PM)
Radio range (Line of Sight)	500 meter
Data encryption	AES-key (16 bytes)

Environmental

Operating temperature (OT)	-20 °C to 60 °C
Pressure	Up to MP
Manual Handling	ASTM D 4169-14 § 10.2.3 – Schedule A – Manual Handling
Transportation	ASTM D 4169-14 § 12.4 – Schedule E _ Vehicle Vibration
Certification	CE: R&TTE Directive 1999/5/EC according to the harmonized standards FCC: publication 47 CFR PART 15 of 2010 for class B