

Diver's Depth Transducer



COMMERCIAL DIVE SYSTEM PRODUCTS

Key Features:

- Field proven, 260+ units in operation
- Long lasting 'in field' operational life
- Durable 316 Stainless Steel Housing
- 10 Bar or 40 Bar sealed gauge models
- 3 or 4 Pin Souriau electrical connector
- Acetal nose protector to sensor



Product Overview:

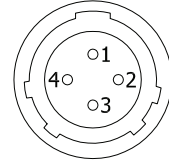
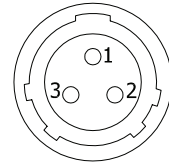
The Fathom Systems Divers Depth Transducer is a compact, rugged, field proven, stainless steel sensor for measuring pressure. Specifically designed to measure diver and bell depths in deep diving systems it can also be used for a range of other manned and remote applications and in other harsh environments where elevated pressures, humidity, sea water or other aggressive fluids preclude the use of standard sensors.

Often supplied as part of a Diver Monitoring System for either SAT or Air/Nitrox surface supply diving operations, the threaded sensor end is protected by a rugged acetal machined nose which is removable for calibration. Standard pressure

ranges are 10 and 40 bar with other ranges and wiring available on special order.

Fathom Systems also supply a range of other sensors and pressure transducers for specific applications in the subsea industry. These have a variety of ranges and output types including very high accuracy digital interfaces.

VIEW ONTO MALE PINS OF TRANSDUCER JUPITER CONNECTOR



Pressure Range (bar absolute / Depth)	Souriau Connector RER M 10MT		Part Number
	No. Pins (Male)	Pin Wiring	
0 - 40 (0-390MSW)	4	1 - 24V Loop Excitation	SP-014-108-005-00
		2 - Loop Signal Return (4-20mA)	KF: 000-001-688
		3 - Not Used	
		4 - Not Used	
0 - 40 (0-390MSW)	3	1 - 24V Loop Excitation	SP-014-108-006-00
		2 - Loop Signal Return (4-20mA)	KF: 000-001-689
		3 - Not Used	
0 - 10 (0-90MSW)	4	1 - 24V Loop Excitation	SP-014-108-007-00
		2 - Loop Signal Return (4-20mA)	KF: 000-000-507
		3 - Not Used	
		4 - Not Used	
0 - 10 (0-90MSW)	3	1 - 24V Loop Excitation	SP-014-108-008-00
		2 - Loop Signal Return (4-20mA)	KF: 000-000-506
		3 - Not Used	
0 - 10 (0-90MSW)	4	1 - Not Used	SP-014-108-009-00
		2 - 24V Loop Excitation	KF: 000-001-690
		3 - Not Used	
		4 - Loop Signal Return (4-20mA)	
0 - 40 (0-390MSW)	4	1 - Not Used	SP-014-108-010-00
		2 - 24V Loop Excitation	KF: 000-001-691
		3 - Not Used	
		4 - Loop Signal Return (4-20mA)	

ITEM PART NOS UPDATED	C	DE	18 OCT 15	SP	19 OCT 15	SG	19 OCT 15
FINISHES REVISIONS & TYPE CHG ADDED	B	GR	1 NOV 11	MC	1 NOV 11	GR	1 NOV 11
ISSUED FOR MANUFACTURE	A	REV	13 JUN 11	CS	13 JUN 11	GR	13 JUN 11
ISSUE DETAILS							
REV	DRN	DATE	CHKD	DATE	APP	DATE	
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TOLERANCES U.O.S. DIMEN: ±0.05 HOLE PDM: 0.02 HOLE STR: ±0.01 ANGULAR: ±0.2°				MATERIAL: N/A FINISH: N/A			
CLIENT: FSL USED ON: SP-014-108-099-00				TITLE: DIVER DEPTH SENSORS PART No & PIN OUT DETAILS			
ALL DIMENSIONS In mm U.O.S.				DRAWING No.: SP-014-108-090-00			
				SIZE: A4 SCALE: NTS SHEET 1 of 1			

Technical overview:

- 0-10 bar sealed gauge (0-90MSW operation)
- 0-40 bar sealed gauge (0-390MSW operation)
- Power Input: 8-28V DC
- Output: 4-20mA interface
- Temperature compensation: -10° to +80°C
- Electrical connector – Souriau Jupiter RER-M-10MT-03-14 or 04-16

Ordering information:

- Order Code 000-001-688, Diver's Depth Transducer, 4 Pin, 40 Bar
- Order Code 000-010-689, Diver's Depth Transducer, 3 Pin, 40 Bar
- Order Code 000-010-507, Diver's Depth Transducer, 4 Pin, 10 Bar
- Order Code 000-010-506, Diver's Depth Transducer, 3 Pin, 10 Bar



Please contact Fathom Systems for further details of mating cable tails or excursion assemblies available.

Fathom Systems Ltd.,
Badentoy Crescent,
Badentoy Park, Portlethen,
Aberdeenshire, AB12 4YD

Phone: +44 1224 401000

Fax: +44 1224 401029

enquiries@fathomsystems.co.uk