

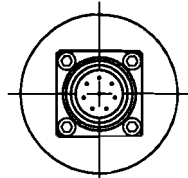
SPECIFICATION CONTROL DRAWING

CAUTION

DELICATE INSTRUMENT.
HANDLE WITH CARE. DO NOT TRANSMIT
SHOCK OR EXCESSIVE VIBRATION TO
PRESSURE PORT OR DEPTH SENSOR BODY.
PERMANENT DAMAGE MAY RESULT.

MODEL NO.	PART NO.	DEPTH RANGE (METERS)	PRESSURE RANGE
8CB1400-I-263	1789-101-0	0 TO 1,400	0 TO 2,000 PSIA (13.79 MPa)
8CB2000-I-263	1789-102-0	0 TO 2,000	0 TO 3,000 PSIA (20.68 MPa)
8CB4000-I-263	1789-103-0	0 TO 4,000	0 TO 6,000 PSIA (41.40 MPa)

SEACON CONNECTOR,
MIND-8-FCR
(MATES WITH MIND-8-CCP)



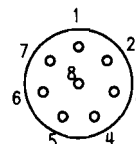
TOP VIEW
(CONNECTOR END)

IDENTIFICATION DECAL
CHEMICALLY ETCHED

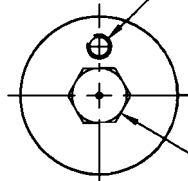
REFERENCE
ORIENTATION,
VERTICAL,
PORT DOWN

CONNECTOR PIN-OUT

PIN	SIGNAL
1	RS-232 TX
2	RS-232 RX
3	POWER/SIGNAL GND
4	POWER
5	RS-485 RX+
6	RS-485 RX-
7	RS-485 TX+
8	RS-485 TX-



1/4-20 UNC X .39 [9.9] DEEP
FOR USE IN SALT WATER,
ATTACH SACRIFICIAL ZINC
ANODE (NOT SUPPLIED)



BOTTOM VIEW
(PRESSURE PORT END)

ANTI-FOULING PRESSURE PORT,
MATERIAL: ACETAL
SENSOR PORT ACCEPTS PARKER
A-LOK NUT (1BZI-316) & FERRULES
(1FF1-316, 1BF1-316) OR EQUIVALENT

10.07 [255.8]

9.33 [237.0]

.25 [6.4]

Ø1.61 [40.9]

OIL HEAD
REFERENCE POINT

PERFORMANCE:

REPEATABILITY	≤ ±0.005% FULL SCALE
HYSTERESIS	≤ ±0.005% FULL SCALE
SUPPLY VOLTAGE SENSITIVITY	LESS THAN 0.001% FULL SCALE/V (+6 TO +16 VDC)

CHARACTERISTICS:

WEIGHT	3.29 LB (1.49 KG) MAX
OPERATES FROM +6 VDC MIN TO +16 VDC MAX. RECOMMENDED INPUT VOLTAGE IS +6 VDC.	
OPERATING SUPPLY CURRENT:	RESOLUTION MODE (SEE NOTE 2)

	STANDARD (PARTS PER MILLION)	NANO (IIR) (PARTS PER BILLION)
SLEEP MODE	7 mA	7 mA
QUIESCENT	12 mA	43 mA
MAXIMUM	16 mA	43 mA

RS-232/RS-485 COMMUNICATIONS PORTS MEETS EIA/TIA-232/485 SPECIFICATIONS.

ENVIRONMENTAL:

OVERPRESSURE	1.2 X F.S. WITH NO CHANGE IN CALIBRATION
OPERATING TEMPERATURE RANGE	-2 °C TO +40 °C (28 °F TO 104 °F)
STORAGE TEMPERATURE RANGE	-25 °C TO +65 °C (-13 °F TO 149 °F)
PRESSURE PORT IS OIL FILLED UNDER VACUUM WITH DOW CORNING FS-1265 FLUID. AT 25 °C, SPECIFIC GRAVITY IS 1.25 AND VISCOSITY IS 300 CENTISTOKES.	
CAUTION: DO NOT APPLY VACUUM OR GAS TO PRESSURE PORT. FLUID COULD BE WITHDRAWN ALLOWING THE PRESSURE MEDIUM TO COME INTO CONTACT WITH THE SENSING ELEMENTS.	

OIL FILLED UNITS GENERATE A PRESSURE HEAD THAT VARIES WITH ORIENTATION.

NOTES:

- HOUSING MATERIAL: 316L STAINLESS STEEL.
- SEE OPERATIONS MANUAL 8819-001 FOR PROGRAM COMMAND INSTRUCTIONS AND CONFIGURATION SELECTION, AND FOR DEFINITIONS OF STANDARD (PARTS PER MILLION) AND NANO (PARTS PER BILLION) IIR FILTERS. DEFAULT SETTING IS STANDARD RESOLUTION. OPERATIONS MANUAL CAN BE DOWNLOADED FROM PAROSCIENTIFIC WEBSITE.
- ELECTRICAL ISOLATION: >100 MEGOHMS AT 500 VDC; <50 uA AT 500 VAC.
- TO TIGHTEN ACETAL PRESSURE PORT, TURN CLOCKWISE UNTIL HAND TIGHT OR FULLY SEATED. AVOID OVERTIGHTENING.
- PRODUCT IS CE MARKED.

CURRENT APPROVALS				Paroscientific, Inc.		DESCRIPTION DIGIQUARTZ® 8CB DEPTH SENSOR, INTEL., ELECT. ISOL., RS-232/485, .005%, WITH SEACON MIND-8-FCR CONNECTOR		
NAME	DATE	NAME	DATE	4500 148th Avenue NE Tel 425.883.8798 website www.paroscientific.com	Redmond, WA 98052 Fax 425.867.5487	SIZE	CAGE	DOCUMENT NUMBER
CAD Raul Collado	2/06/15	MPN	2/06/15	UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES DIMENSIONS IN BRACKETS ARE IN MILLIMETERS DIMENSIONS ARE FOR REFERENCE ONLY		A	54535	7613-263
CHK C. S. H.	2/11/15	QA	2/11/15					
END T. L. W.	2/6/15	MKTG	2/6/15					
EO NO/EFFECTIVE DATE: 8109, 8110				ACAD FILENAME: 7613-263.dwg		SCALE	NONE	SHEET 1 OF 1