

# 1/2 INCH [13 MM] OD TRANSDUCER, ASIC HYBRID DHB104-XX-YYY

Part Number Coding: **A A A BBB - XX - YYY**  
 Family Options Pressure Temperature

## FEATURES AND BENEFITS

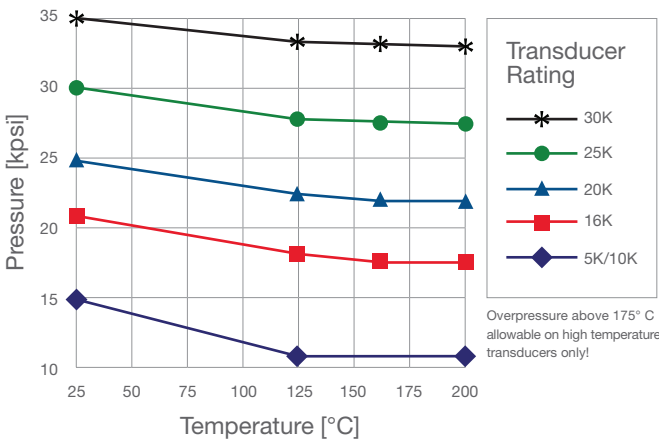
Pressure range: . . . . . 0 -30,000 psi [0 to 2415 bar]  
 Operating temperature range: . . . . . -40° to 225°C  
 Drift at max temperature and pressure: . . . . . 0.02% FS / year  
 Fast Transient Response  
 NIST Traceable Calibration

## MECHANICAL SPECIFICATIONS

Proof Pressure. . . . . 35,000 psi (2415 bar)  
 Overpressure without sensor damage . . . . . Varies with temperature; see plot below  
 Fluid Filled . . . . . Non-toxic Paratherm heat transfer fluid  
 Mechanical Shock / Vibration . . . . . See Quartzdyne document **E20-032**  
 Weight . . . . . 4.25 oz. [120g]

## OVERPRESSURE LIMITS

For Quartzdyne® Pressure Transducers



## ELECTRICAL CONNECTIONS

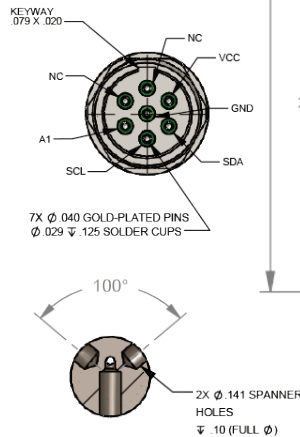
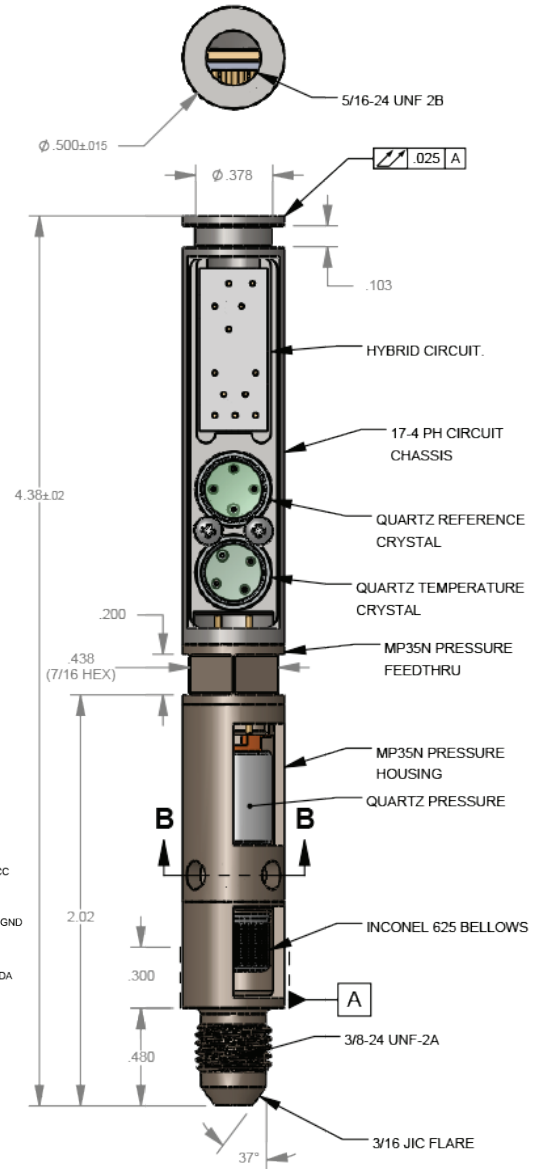
**Output:** Digital I2C

**Wire:** 28 AWG, TFE ET (Ø0.027" [0.69mm]) flying leads

Color	Description	Color	Description
Black	Ground	Slate	SLC (Clock)
Blue	VCC (5.5V DC max)	Yellow	A1
Green	SDA (Data)		

## TOOL DESIGN CONSIDERATIONS

1. Precautions must be taken to protect the circuit, chassis and reference crystal from external pressure by adding a pressure vessel or tubing.
2. The output connector is not recommended for downhole use. If needed, a corresponding connector and cable is available for purchase.
3. Special care should be taken to protect the wires passing through the chassis, by maintaining the wire bundle, or protecting with tubing to prevent damage.
4. A sealing ferrule (D22312-01) is required for all pressure applications. Torque @10-12 ft-lb [13.6-16.3 Nm]. Over torquing may result in a stuck ferrule which may require machining to remove or complete replacement of the front end of the gauge.



**SECTION B-B**