

Heath Chart Recorder - Efficient, Easy to Use & Durable

The Heath Chart Recorder (HCR) is used in natural gas transmission and distribution systems that require accurate pressure and temperature recorded on circular paper charts. The HCR can be used for many applications including hydrostatic pipeline testing and/or pressure vessels and can be used with natural gas, oil, water, etc.

HCR recorders feature the exclusive hinged pen bracket assembly to help maintain proper pen tension. Available in lightweight drawn aluminum or indestructible stainless steel housings with either wall, pipe, pedestal or portable configurations.

All helical elements produce a full 22.5 degrees of rotation, are constructed of temperature insensitive stainless steel alloy and feature full-length center posts to ensure precise movement of the coil. Temperature elements are available in a variety of configurations including full line compensation for extra long spans. Precision-formed bellows assemblies deliver accurate measurement of low pressures. It all adds up to the highest level of resolution available in a mechanical chart recorder on the market today. The HCR uses the Sonceboz 820 chart drive. The Sonceboz chart drive is UL approved, battery powered, has quartz movement for reliability and accuracy and is tested to -40°F to + 180°F.



Specifications

Physical

Housing:	Deep drawn aluminum IP64 powder coated blue (optional stainless steel) Acrylic plastic window (optional)
Dimensions:	Overall 12" x 10" x 4"
Weight:	9.5lbs (portable single pen)
Mounting:	Wall, 2" pipe mount or portable
Security:	Stainless steel padlock hasp
Sonceboz Rotations:	60min - 90min - 12hr - 1d - 2d - 7d - 8d - 14d - 16d - 31d - 32d

Sensing Elements

Ranges:	Up to two (2) Pressure ranges: 12" H ₂ O - 5000PSIG Stainless Steel Helical wound bourdon tubes, 22.5° rotation Beryllium Copper capsular bellows 1 3/4" x 5/8" temp sensing bulb with 10' of armored capillary
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Performance

Accuracy:	.25% of full scale up to 3000 psig/.5% of full scale for 5000 psig pressure elements/.25% full scale for temperature elements
Temperature:	-40°F to + 170°F degrees
Humidity:	5% to 95% percent non-condensing
Marking System	
Charts:	Bristol or Mercury 8" charts (6.375" arc)
Pens:	Fibertip disposable pens standard