

SensorScan® DHT-400

HIGH-TEMP DUAL-ELEMENT TRANSDUCER

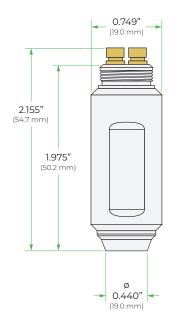
FOR THICKNESS MEASUREMENTS ON ROUGH OR CORRODED SURFACES

The SensorScan Model DHT-400 Ultrasonic Transducer is a general-purpose sensor for measuring the remaining wall thickness on rough metal ID and OD surfaces due to corrosion and/or erosion. The transducer can be used intermittently (50% duty cycle) over a wide temperature range from 0 to 932°F (-17.8 to 500°C) and continuously from 0 to 400°F (-17.8 to 204°C).

Typical applications include its use with common digital thickness gauges or flaw detectors on boiler/furnace tubes, pipes, tanks, vessels, structures and other safety-critical components at power plants, refineries, mid- and up-stream Oil & Gas assets, and chemical facilities.



specifications



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delay roof angle

connector type

contact diameter

min. and max thickness (steel)

continuous use temperature

maximum contact temperature

duty cycle

cable options

cable connector options

compatible instruments

DHT-400 case

5 MHz (nominal)

5 degree (10 degree included)

MD #10-32 (2x) or MCX (2x)

0.440" (11.2 mm)

Min.: 0.040" (1.0 mm), Max: 10" (254 mm)

400°F (204°C)

932°F (500°C) Intermittent

50% at 10 seconds (max recommended)

5 ft. (1.52m) standard & armored cable

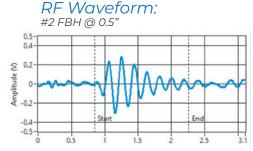
Lemo-00, Olympus- & Krautkramer-style gauge

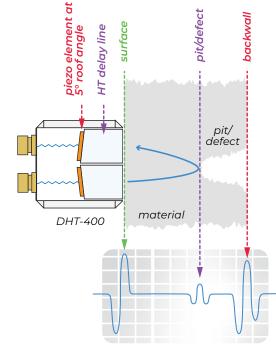
38DL PLUS, 37DL PLUS, 36DL PLUS DMS GO, All Flaw Detectors

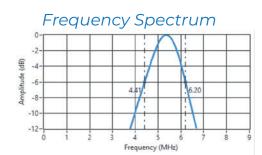
Delivered in hard-shell case for field use

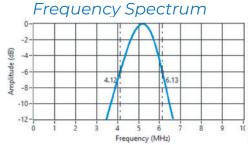
part numbers

	Transducer	Kits	Cable Options (5ft.)				
item	DHT-400	DHT-400 + Lemo-00 Connector Cable (standard)	Lemo-00 Connector (standard)	Olympus Probe Recognition Connector (standard)	BNC Connector (standard)	Lemo-00 Connector (armored)	Olympus Probe Recognition Connector (armored)
MD connector	00-012543	01-030180	07-010245	07-010246	07-036032	07-036033	07-036034
MCX connector	00-030003	01-030181	07-036036	07-036037	07-036038	07-036039	07-036040

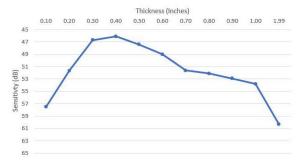








DAC Curve



The two 5° roof angles create a pseudofocusing effect thereby increasing the transducer's sensitivity for pit-like defects.

Thermal-cycle testing





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Ver. 1