

RELIABLE ULTRASONIC MEASUREMENT

CYGNUS 1 INTRINSICALLY SAFE ULTRASONIC THICKNESS GAUGE

GNUS



The Cygnus 1 Intrinsically Safe is a simple and tough ultrasonic thickness gauge for safely measuring remaining metal thickness in hazardous/potentially explosive atmospheres. The gauge employs the Multiple-Echo technique to give accurate, self-verified measurements without removing protective coatings.

IDEAL FOR



...oil and gas production infrastructure and pipelines, dry dust environments, mines, grain processing plants and fuel depots.







CYGNUS1 INTRINSICALLY SAFE KEY FEATURES

CERTIFIED INTRINSICALLY SAFE TO:

ATEX

{Ex} II 1 G Ex ia IIC T6 Ga $(Tamb = -20^{\circ}C to 40^{\circ}C)$ {Ex] M1 Ex ia I Ma CSA Class 1 Group A, B, C & D Division 1 IECEx Ex ia IIC T6 Ga Ex ia I Ma



• For use in Zone 0, Zone 1 hazardous areas

- No plant shutdown or hot work permit necessary
- Approved for use in mines
- Echo strength indicator to aid measurement
- Stable calibration, linear accuracy, no zero adjustment
- Self-verification of the measurements to ensure maximum accuracy
- Two rechargeable battery packs with charger
- Displays sound velocity settings
- Right angle probe for use in areas of restricted access
- Probe frequency selectable
- Metric / imperial switchable
- Low battery warning

BRIGHT LED MULTIPLE **HEAVY-DUTY** RUGGED, **DISPLAY** WITH

PROBE SEALED DURABLE. OPTIONS SHOCK-PROOF POLARISED UNIT IP65 FILTER AVAILABLE RATED CONSTRUCTION

BENEFITS OF MULTIPLE-ECHO

- coated structures
- error checked using
- Accepted by all major



CYGNUS 1 INTRINSICALLY SAFE SPECIFICATION

Feature	Description
Measuring Mode	Multiple-Echo using 3 echoes to ignore coatings
Materials	Velocities from 2000 - 7000 m/s (0.059 and 0.31 in/us) - covers virtually all common engineering materials
Accuracy	±0.1mm (±0.004") or 0.1% of thickness measurement, whichever is greatest, when calibrated in accordance with Cygnus Instruments calibration procedure
Resolution	0.1mm (0.004") or 0.05mm (0.002") (selectable)
Probe Options	Single crystal probes
Measurement Range in Steel	1 – 250mm (0.040 in. – 10 in.) depending on selected probe and configuration, material and temperature
Power	NiMH rechargeable battery pack
Battery Life	12 hours' continuous operation
Display	Bright LED display
Size	235 x 75mm (9.252" x 3.000") (H x W)
Weight	910g (32 oz) with remote probe (inc. batteries)
Operating Temp.	-10°C to +50°C (14°F to 122°F)
Certification	ATEX {Ex} II 1 G Ex ia IIC T6 Ga (Tamb = -20°C to 40°C) {Ex} I M 1 Ex ia I Ma (Tamb = 0°C to 45°C) IECEx Ex ia IIC T6 Ga Ex ia I Ma CSA Class 1 Group A, B, C, D Division 1
Environmental Protection	IP65
Standards	Designed for EN 15317
Warranty	3 years on gauge and 6 months on probe



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