

#### **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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