

INTROS-AUTO

Automated Wire Rope Tester

- High inspection speed, sensitivity, accuracy
- Automatic analysis for discard criteria
- Appropriate for wire rope monitoring
- Robust explosive proof design

INTROS-AUTO designed for non-destructive inspection of wire ropes with automatic data interpretation. Automatic interpretation is based on “traffic light” conception. Green light allows continuing rope operation; yellow light means defects reached 70% of discard criteria, and red light alerts that rope may no longer be used. Following criteria are used to discard rope – number of broken wires along lay length and loss of metallic cross section area in percentage. INTROS-AUTO stores detailed data, that can be downloaded and interpreted in regular manner.



The instrument consists of magnetic head and control and display unit connected with cable up to 80 m length. Magnetic head has strong permanent magnets, and measuring systems is equipped with Hall Effect sensors and coils. Optionally odometer can be fixed on the magnetic head. Control and display unit is powered with DC 12V, and has wireless connection with PC. INTROS-AUTO can be used for rope monitoring and implemented into hoisting controlling system. It has been proven by customers as effective mean to inspect ropes at onshore drilling rigs.



Technical specification

Principle of operation	Magnetic Flux Leakage
Embedded sensors	Hall effect sensors, coils
Diameter of rope	From 25 to 36 mm
Inspection speed	From 0.2 to 5 m/s
Ambient temperature	From -40 to +50°C
Power supply	DC 12 V
Weight of magnetic head	15.5 kg
Weight of control and display unit	3 kg
Dimensions of magnetic head	400 x 182 x 185 mm
Dimensions of control and display unit	311 x 147 x 114 mm
Explosion proof version	Yes
Ingress protection	IP66 (magnetic head), IP65 (control and display unit)

INTRON PLUS also produces equipment and provides services for non-destructive inspection of steel plates and steel cord conveyor belts.



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