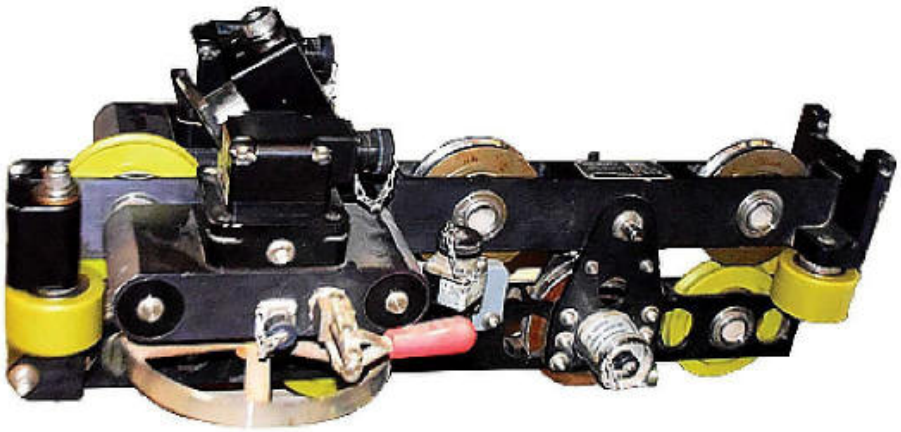
FALIZ PAJOUHESH PARS CO.



F1.E2

Logging Measuring head

This Wireline Measuring Device is a compact and lightweight device for measuring both wireline depth and tension. It will work on both open and cased-hole wireline units which allows standardization on a measuring head for all types of operations. It is designed to be mounted to the spooling arm of a wireline unit.

This product uses dual spring-loaded measuring wheels to measure the amount of wireline moving in or out of the borehole. The measuring wheels are coupled to optical encoders that transmit electrical signals to the hoistman's panel and/or logging computer, also it uses an electronic load pin to measure wireline tension. Three wheels are used to create a force on the load pin. The wheel mounted on the load axle is offset from the two guide wheels. This creates a slight bend in the cable. As wireline tension increases the bending of the cable creates a corresponding force on the strain-gauged load axle. This electronic signal which represents line wireline tension is transmitted to the hoistman's panel and/or logging computer.

Dimensions & Weights

[L] 0.704 m [W] 0.447 m [H] 0.348 m [Weight] 27 kg

Line Size Capability

* 0.190” to 0.875” Diameter (4.8 mm to 22 mm)

Maximum Tension

* 25000 lbs (11340 kg)

Encoder

* 1200 PPR (Others available)

Backup Counter

* 4 PPR Quadrature

Load Pin

* Passive low voltage
* Differential voltage
* 4 ~ 20 mA current loop

Features

* Straight-line measurement (cable sizes can be changed without affecting depth measurement)
* Dual Tangential Measuring Wheels made from specially hardened Steel (non magnetic and non wear ceramic wheels also available)
* Lightweight design with integral tension (makes for easier high angle rigup)
* Device opens up to provide easy cable installation and removal, by removing a single pin
* Includes both horizontal and vertical guide rollers (to minimize measuring wheel loading)
* Rollers are oversized (to increase reliability and reduce maintenance)
* Non loaded guide rollers are made from composite material (to reduce Weight and cable wear)
* Rear, Center, overhead, or bottom spooling arm mounts available
* Tension Load Axle and amplifier (can be configured for different outputs)
* Digital Magnetic Mark Detector
* Accepts single or dual encoders
* Supports fully independent backup depth measuring system (using a magnetic pickup)
* Encoder, Mark Detector, and Tension amplifiers (available for Zone I or Zone II)
* Anodized aluminum frame
* All steel parts are plated or stainless steel
* All bearings are stainless steel

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