

AM5K MEASURING HEAD - OPEN HOLE/CASED HOLE



PRODUCT DESCRIPTION

The **AM5K Wireline Measuring Device** from BenchMark Wireline 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.

The AM5K 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.

The AM5K uses an electronic load axle to measure wireline tension. Three wheels are used to create a force on the load axle. 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.

PRODUCT 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).
- Accepts cable sizes - from .190" to .875" diameter (4.8 mm to 22 mm)
- 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 area use
- Anodized aluminum frame - All steel parts are plated or SST - All bearings are SST

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GENERAL SPECIFICATIONS

Height:	13.72"	.348 m
Length:	27.72"	.704 m
Width:	17.63"	.447 m
Weight:	58 lbs	26.3 kg
Maximum Tension:	25,000 lbs	11,339 kg
Line Sizes:	.190" to .875" diameter (4.8 mm to 22 mm)	
Encoder:	1,200 PPR standard, others available	
Backup Counter:	4 PPR Quadature	
Load Pin:	Passive low voltage, Differential voltage, 4-20ma current loop	

