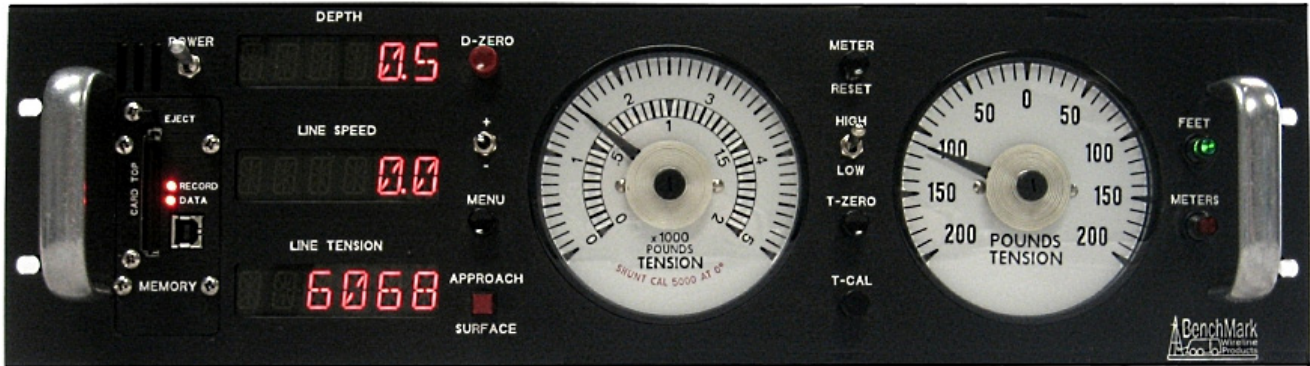


WINCH OPERATORS SLICKLINE/CASED HOLE ANALOG PANEL



PRODUCT DESCRIPTION

The **Winch Operators Analog Panel** is designed to acquire and display depth and tension from a wireline winch unit. The panel uses a menu system to set and make adjustments to the data as necessary.

When first powered up, each of the menu settings are displayed on the depth and line speed displays.

Depth is displayed from data provided from an encoder mounted on a measuring device. The tension data is provided by a load pin. Depth and tension data can be stored in an internal memory board for playback at a later time. The panel can also be connected to a PC through a serial port for real time acquisition and playback of data.

The system is designed to operate properly from conventional 12-24 vdc electrical power.

Loss of power to the panel during operation will not cause a loss of depth data. The panel continuously stores depth data every 100 milliseconds in an internal battery backed up memory device. When power is applied, the last "Depth" is displayed.

PRODUCT FEATURES

- Digital displays for depth, line speed and tension
- Analog tension meters, 4 inch (108 mm) dia., 270 degree
- Excessive tension alarm setting allows operator to set tension alarm to a predetermined value. Contact closure is provided for winch shutdown
- Zero Depth button - sets depth to 0. Depressing button again resets depth to previous setting. Only works when line speed is zero
- Approaching surface alarm
- Depth adjust up or down switches. Only works when winch is stopped
- Load pin zero & calibrate controls. Only works when there is no load on the cable and the depth is at zero.
- Depth & tension saved in non-volatile memory at power loss
- RS232 Interface for additional control and data outputs
- English or Metric display selection available
- Data recorder which records both depth and tension data to a solid state memory device

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GENERAL SPECIFICATIONS

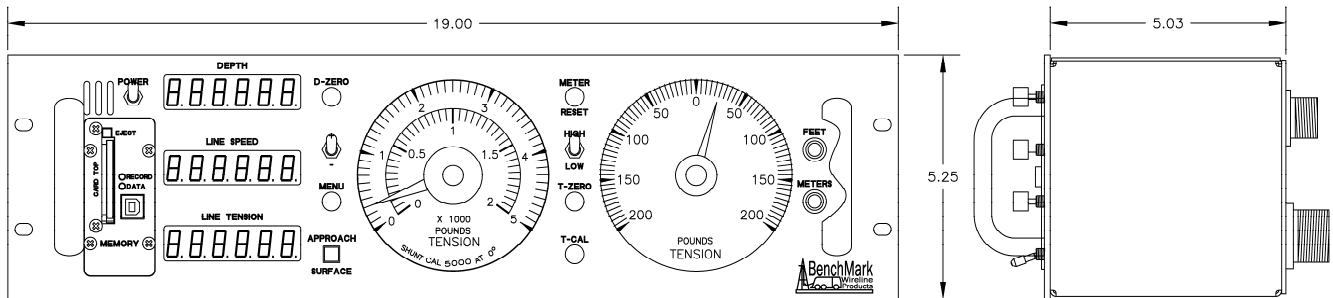
Height:	5.25"	.133 m
Width:	19.00"	.482 m
Depth:	5.03"	.127 m
Weight:	5.0 lbs	2.26 kg

OPERATING SPECIFICATIONS

Temperature Minimum:	Maximum Range -20 to 140 degrees F or -28.9 to 60.0 degrees C
Power Supply Range:	9 – 30 VDC @ 2 AMP Maximum
Maximum Line Speed:	3,000 ft/min @ 600 pulses/ft or 914meters/min @ 600 pulses/.30meters
Minimum Line Speed:	.6 ft/min or .182meters/min
Maximum Line Tension:	8,000 lbs or 3,628 kg
Digital Tension:	6 Digits Accuracy with 1lb or 1kg resolution
Digital Line Speed:	6 Digits with .1 ft or .1 meter resolution

FRONT

SIDE



REAR

