

ZONE 2 WINCH OPERATORS PANEL AMS4A099



GENERAL DESCRIPTION



This panel is used to acquire and display depth and tension data from a wireline logging winch unit. The panel provides the operator a means to set and make adjustments to the data as necessary. Depth is displayed from data provided from an encoder mounted on a measuring device. The tension data is provided by a load pin installed on the measuring device. The panel will operate with the BenchMark Wireline Products, Inc Slickline or Braided line measuring heads.

The system consists of two main components, the real time acquisition board and the PC. The acquisition board provides power to and processes the signals from the encoders and load pin. This board operates independent from the PC and is instantly on when power is applied.

The PC uses an Intel based high speed processor running MS Windows XP embedded. The PC includes a color touch screen for operator input and command entry. The PC is Ethernet ready for connection to the internet for remote display and control.

HARDWARE FEATURES

12 - 24 VDC Power Input

Internal PC board

- Intel based personal computer board
- 4 gb solid state media device
- Embedded windows XP operating system
- Three USB ports (2 on front)
- 1 RS232 port
- USB Mouse / Keyboard included

Color Display

- TFT LCD
- Backlit
- 750 NITS Sunlight readable

Touch Screen Interface (replaces current key pad)

- 5 wire resistive
- USB interface

Real Time Acquisition board

- Kerr Measurement Systems proprietary design
- 8051 Microprocessor based
- Provides power to encoders, mag mark detector, and load cell
- Processes encoder quadrature, mag mark signal, and load cell
- Runs independent of PC board
- Connected to digital displays for real time display of depth and tension

Overtension Relay Contact Closure output

Analog output interface

- Encoder quadrature output
- 0 – 10vdc tension output
- 4-20ma tension output

USER INTERFACE FEATURES

Total Tension numeric graphic

Incremental or Differential tension meter graphic

Meter reset button graphic (touch screen control)

Over_tension Warnings and Shutdown settings for both Differential and

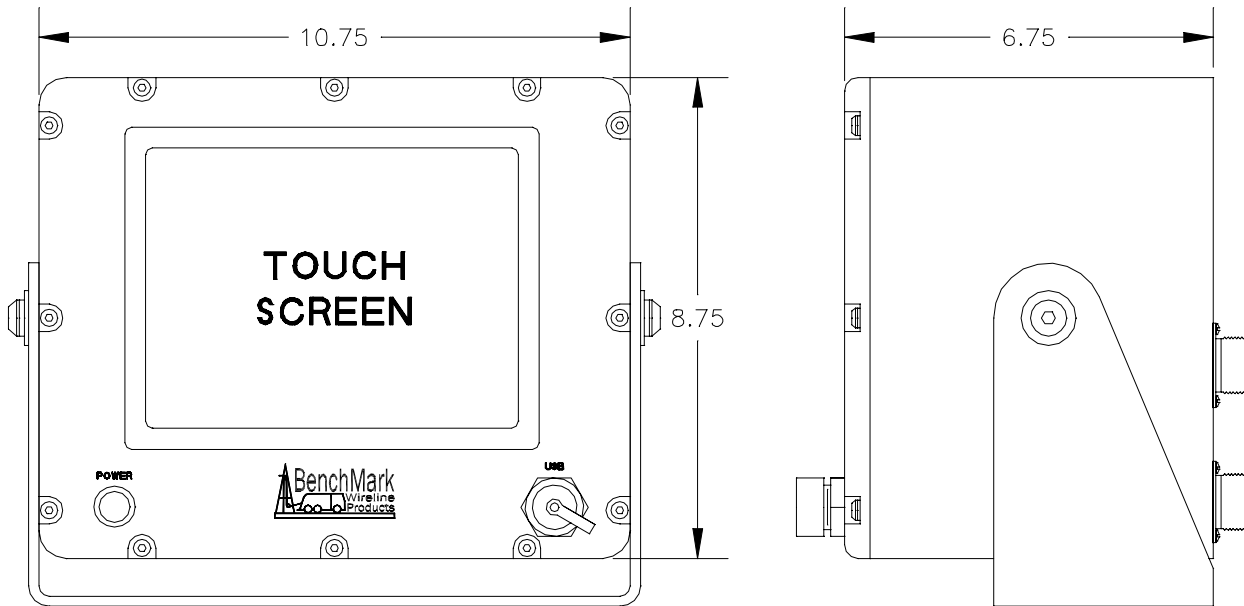
Total Tension readings (touch screen activated)

Tension Calibration Setup Window (touch screen control)

Encoder Resolution Settings (PPR value set by touch screen control)

Data Record – Depth, Line Speed, and Tension data are recorded and stored in a data file. This data can be imported into a program such as MS Excel for plotting job logs and plots.

SPECIFICATIONS



WEIGHT:

PANEL ONLY: 10 LBS 4.55 KG

POWER REQUIREMENTS:

INPUT VOLTAGE: 12 – 24VDC
 INPUT CURRENT: 4 AMPS STARTUP SURGE
 3 AMPS NORMAL OPERATION

OPERATING TEMPERATURE

Min	Max	
14	149	degrees F
-10	65	degrees C

STORAGE TEMPERATURE

Min	Max	
-22	158	degrees F
-30	70	degrees C

ZONE II CERTIFICATION

DIRECTIVES:

ATEX DIRECTIVE 94/9/EC

STANDARDS:

EN 50021: 1999

CODING:

CE

EEX Na II T6