

## APPENDIX A: SPECIFICATIONS

### ANALOG SPECIFICATIONS

Full Scale Input Signal	+/- 3.125 mV/V
Minimum Sensitivity	0.8 $\mu$ V / grad
Input Impedance	30M $\Omega$ , typical
Internal Resolution	Approximately 500,000 counts at 3 mV/V input
Display Resolution	30,000 display divisions max
Measurement Rate	15 Meas/sec, nominal
System Linearity	Within 0.02% of FS
Calibration Method	Software Calibration, with long term storage in EEPROM
Excitation Voltage	+5 VDC, 4 x 350 $\Omega$ load cells

### DIGITAL SPECIFICATIONS

Microcontrollers	Winbond W78E58
Program Memory	32K x 8, internal to $\mu$ C
SRAM:	512 x 8, internal to $\mu$ C
EEPROM:	128 x 8, external to $\mu$ C

Digital Filtering                      Software selectable

### I/O

Serial Port	Full Duplex, 1200, 2400, 4800, 9600, 19200 Baud
RS-232C and RS-485	8 data bits, no parity, 1 stop bit 7 data bits, odd parity, 1 stop bit 7 data bits, even parity, 1 stop bit 7 data bits, no parity, 2 stop bits
Analog Output	Passive 4-20 mA
USB	
Control	4 relay output connections with optical isolation Contacts are rated for 240 V 5A (resistive)

### OPERATOR INTERFACE

Display – LED Indicators	0.8" (20 mm) 7-segment, LED, 6 Digit
Additional Symbols	Net, Gross, Stable, Tare, lb, kg, Zero, PCS
Keyboard	5-key flat membrane panel

### POWER

Voltage requirement	9-12 VDC, 500 mA
DC Power Consumption	360mA + 15mA/350 $\Omega$ Load Cell

### ENVIRONMENTAL

Operating Temperature	-10° to +60° C
Storage Temperature	-25° to +70° C

### MECHANICAL

Overall Dimensions (L x W x H)	6.3" x 3.9" x 4.2" (160mm x 99mm x 106mm)
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