

7.9 Specifications

Power

Line Voltages	115 or 230 VAC
Frequency	50 or 60 Hz
Power Consumption	66 mA @ 115 VAC (8W) 33 mA @ 230 VAC (8W)

Fusing

115 VAC	2 x 160 mA TR5 subminiature fuses Wickmann Time-Lag 19374 Series UL Listed, CSA Certified
230 VAC	2 x 80 mA TR5 subminiature fuses Wickmann Time-Lag 19372 Series UL Recognized, VDE Approved

Analog Specifications

Full Scale Input Signal	Up to 45 mV
Excitation Voltage	10 ± 0.5 VDC, 8 x 350Ω or 16 x 700Ω load cells
Sense Amplifier	Differential amplifier with 4- and 6-wire sensing
Analog Signal Input Range	0.6 mV/V – 4.5 mV/V
Analog Signal Sensitivity	0.3 μV/graduation minimum, 1.5 μV/grad recommended
Input Impedance	200 MΩ, typical
Noise (ref to input)	0.3 mV p-p with digital filters at 4-4-4
Internal Resolution	308 000 counts
Display Resolution	60 000 dd
Measurement Rate	15 measurements/sec, nominal
Input Sensitivity	150 nV per internal count
System Linearity	Within 0.01% of full scale
Zero Stability	150 nV/°C, maximum
Span Stability	3.5 ppm/°C, maximum
Calibration Method	Software, constants stored in EEPROM
Common Mode Voltage	± 4 V, referred to earth
Common Mode Rejection	140 dB minimum @ 50 or 60 Hz
Normal Mode Rejection	90 dB minimum @ 50 or 60 Hz
Input Overload	± 12 V continuous, static discharge protected
RFI Protection	Signal, excitation, and sense lines protected by capacitor bypass
Analog Output	Optional: fully isolated, voltage or current output, 14-bit resolution. Voltage output: 0 –10 VDC Load resistance: 1kΩ minimum Current output: 4–20 mA External loop resistance: 500Ω maximum

Digital Specifications

Microcomputer	Hitachi H8/3834 main processor @ 9.8304 MHz
Digital Inputs	2 inputs, TTL or switch closure, active-low
Digital Filters	3 filters, software selectable

Serial Communications

EDP Port	Full duplex RS-232
Printer Port	Output-only RS-232 or active 20 mA current loop
Both Ports	9600, 4800, 2400, 1200, 600, 300 bps; 7 or 8 data bits; even, odd, or no parity

Operator Interface

Display	6-digit LCD display, 14-segment, .8 in (20 mm) digits with green backlight
Additional Symbols	Designators for: Center of zero, standstill, B/G (Brutto/ Gross), gross, net, minus sign, tare, entered tare, displayed tare, nicht geeicht/entry mode, lb/kg
Keyboard	5-key flat membrane panel

Environmental

Operating Temperature	-10 to +40°C (legal); -10 to +50°C (industrial)
Storage Temperature	-25 to +70°C
Humidity	0–95% relative humidity
Altitude	2000 m (6500 ft) maximum

Enclosure

Enclosure Dimensions	9.5 in x 6 in x 2.75 in 24 cm x 15 cm x 7 cm
Weight	2.84 Kg (6.25 lb)
Rating/Material	NEMA 4X/IP66, stainless steel

Certifications and Approvals



NTEP	
CoC Number	97-130
Accuracy Class	III/III L n_{max} : 10 000



Measurement Canada	
Approval	AM-5213
Accuracy Class	III/III HD n_{max} : 10 000

Legal for trade Rice Lake Meter

