

TradeRoute™ HL Series

Legal for Trade Onboard Weighing System

ONBOARD WEIGHING



920i Onboard Weigh Center



In-cab Indicator



Single Assembly



Double Assembly

Standard Features: System

Legal for Trade Onboard System Includes:

- 3 or 4 point onboard system RL2000B load cell with 20 ft cable, IP67
- 80 ft conduit cable
- Magnetic transport alarm sensor with 15 ft cable
- JB4SS junction box
- Hydraulic line locks and hoses
- 920i® Onboard Weigh Center
- Hydraulic pump not included
- Minimum 3,000 PSI recommended to maintain 2200 PSI during lift

920i Onboard Weigh Center:

- Epson® TM-U295 printer with splash shield
- Pre-installed 30 ft power cable, 30 ft load cell cable and inclinometer
- Transport alarm LEDs
- Power switch
- Start/End switch
- Waterproof enclosure
- Vibration mounts
- Mounting bracket to body not included

920i USB Universal with Onboard Software:

- RS-232 port for connecting to a ticket printer
- Standard onboard software
- USB interface board only

USB Interface Functions:

- Available upon special request using a Type A sealed connector
- USB interface card on Port 2
- Supports weigh mode and configuration mode functions
- Supports upload of databases and 920i configuration file
- Supports download of databases, 920i configuration file, iRite®, COD file and firmware file
- Sanity checks for command errors
- Create STD database files

Flash Drives:

- Supports USB 2.0 (optional)
- Create sub directories by unit ID and database name
- Use the root directory for generic files

System Approvals:

- NTEP CC 15-102
- Measurement Canada AM-4847

Specifications: 920i® USB Indicator

Power:

Line voltages: 115 or 230VAC, 9-36VDC,
+/- 6, 25 Watt input
Frequency: 50 or 60 Hz
Power consumption: 340 mA, maximum at 115VAC
(26W) 240 mA at 230VAC (26W)

Excitation Voltage:

10 ± VDC, 16 x 350 Ω or 32 x 700 Ω load cells
per A/D card

Analog Signal Input Range:

-10 mV to +45 mV

Analog Signal Sensitivity:

0.3 μV/graduation minimum at 7.5 Hz
1.0 μV/graduation typical at 120 Hz
4.0 μV/graduation typical at 960 Hz

A/D Sample Rate:

7.5 to 960 Hz, software selectable

Resolution:

Internal resolution: 8 million counts
Weight display resolution: 9,999,999

System Linearity:

± 0.01% full scale

Digital I/O:

Six I/O channels on CPU board; optional 24-channel
I/O expansion boards available

Circuit Protection:

RFI, EMI, ESD protection

Serial Ports:

Four ports on CPU board support up to
115,200 bps; optional dual-channel serial
expansion boards available
Port 1: Full duplex RS-232
Port 2: USB Type A and Type B connectors
Port 3: Full duplex RS-232, 20 mA output
Port 4: Full duplex RS-232, 2-wire RS-485,
20 mA output

Display (W x H):

4.6 x 3.4 in (116 W x 86 mm H), 320 x 240 pixel
VGA Liquid Crystal Display (LCD) module with
adjustable contrast

Keyboard:

27-key membrane panel, tactile feel

Operating Temperature:

Legal: 14°F to 104°F (-10°C to 40°C)
Industrial: 14°F to 122°F (-10°C to 50°C)

Weight:

45 lb, weigh center

Rating/Material:

NEMA 4X/IP66, stainless steel

Warranty:

Two-year limited warranty

Indicator Approvals:

NTEP CC 01-088, Class III/IIIL 10,000d
Measurement Canada AM-5426,
Class III/III HD 10,000d
OIML UK 2658, 6,000/10,000
CE marked
UL & C-UL listed (Universal,
Deep and Wall Mount Enclosure)

Approvals



Measurement
Canada
Approved

www.ricelake.com | Phone: 800-472-6703

RICELAKE

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**Specifications:
RL2000B S-Beam Load Cell**

Full Scale Output:
3.0 mV/V

Output Resistance:
350 (± 3) ohms

Input Resistance:
385 (± 5) ohms

Material/Finish:
High-alloy steel, nickel plated

Temperature:
Compensated range
14°F to 104°F (-10°C to 40°C)

Seal Type:
Environmentally sealed, IP67

Safe Overload:
150% Full scale

Rated Excitation:
10V DC (15V maximum)

Nonlinearity:
0.03% Full scale

Hysteresis:
0.02% Full scale

Insulation Resistance:
5000 megohms

Cable Length:
20 ft (6.1 m)

Cable Diameter:
0.200 polyurethane jacket

Cable Color Code:
Red+ Excitation
Black.....- Excitation
Green.....+ Signal
White- Signal

Warranty:
Two-year limited warranty

Approvals:
FM approved
NTEP approved
CE marked

**Specifications:
JB4SS Junction Box**

Cable Fittings:
PN 88956:
(4) PG7 0.118-0.255 strain relief
(2) PG11 0.197-0.394 strain relief
(1) PreVent™ breather vent
PN 107700:
(4) PG9 0.138-0.315 strain relief
(2) PG11 0.197-0.394 strain relief
(1) PreVent™ breather vent

Enclosure:
Stainless steel NEMA Type 4X

Connectors:
Spring clamp screwless, 12-28 AWG

Trimming:
Individual cell, signal trim, ranges zero trim
12.49K-100K ohms with 2.49K ohms isolation resistors

Potentiometers:
100K ohms, 25 turn cermet

Circuit Board:
3.8. x 2.3 in. (96.5 x 58.4 mm), with conformal coating

Warranty:
One-year limited warranty

**Specifications:
Epson® TM-U295 Printer**

Print Speed:
1.9 to 2.3 lines per second (5 x 7 character, 3 dot line spacing)

Column Capacity:
35/42 columns

Characters Per Line:
35 standard font

Print Area:
2.59 in W (65.8 mm W)

Character Formation:
5 x 7 and 7 x 7 dot matrix

Character Height:
0.11 standard font

Print Head Life:
Approximately 100 million strokes/pin

Form Thickness:
Single-ply - 0.003 in to 0.009 in (0.08 mm to 0.23 mm)
Copy paper - 0.003 in to 0.014 in (0.08 mm to 0.36 mm)

Ribbon:
Cassette-type purple ribbon. Ribbon life is approximately 1.5 million characters (continuous prints). Black ink also available.

Approvals:
UL listed, CSA certified, CE marked

Warranty:
One-year limited warranty (includes print head)