

TradeRoute™ HL Series

Legal for Trade Onboard Weighing System

ONBOARD WEIGHING



Double-double Assembly

Standard Features System

Legal for Trade Onboard System Includes:

- 3- or 4-point onboard system RL20000 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 2,200 PSI during lift

Approvals:

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

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 ticket printer
- Standard onboard software
- USB interface board only

USB Interface Functions:

- Available upon special request using a Type A sealed connection
- 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 subdirectories by unit ID and database name
- Use the root directory for generic files

Approvals



Specifications: 920i® USB Indicator

Power:

DC voltage: 9-36VDC,
Consumption 25W

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 Type 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)

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Single Assembly



Double Assembly

Specifications RL2000I 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:**
10 V DC (15 V maximum)
- Nonlinearity:**
0.03% Full scale
- Hysteresis:**
0.02% Full scale
- Insulation Resistance:**
5,000 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:**
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NTEP

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 2.49 K ohms isolation resistors
- Potentiometers:**
100,000 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
Copy paper - 0.003 in to 0.014 in
- 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)