Specifications

Power:
AC voltages: 100-240 VAC Frequency: 50-60 Hz
DC voltages: 12-24 VDC
Consumption: AC: 25 W universal, 65 W panel & wall mount
DC: 25 W

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

Analog Signal Input Range:
-45 mV to +45 mV

Analog Signal Sensitivity:
0.3 µV/graduation minimum at 7.5 Hz
1.0 µV/graduation recommended

A/D Sample Rate:
7.5 to 960 Hz, software selectable

Resolution:
Internal: 8 million counts/8,000,000
Display: 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

Communication Ports:
Four ports on CPU board support up to 115,200 bps
Port 1: Full duplex RS-232
Port 2: RS-232 with CTS/RTS; PS/2 keyboard interface via DB-9 connector
Port 3: Full duplex RS-232, 20 mA output
Port 4: Full duplex RS-232, 2-wire RS-485, 20 mA output
Optional dual-channel serial expansion boards available
Channel A: RS-232, RS-485, 20 mA
Channel B: RS-232, 20 mA

Display:
(W x H) 4.6 in x 3.4 in (116 mm x 86 mm), 320 x 240 pixel LCD module with adjustable contrast.
Transmissive display
Transflective display (optional)

Keys/Buttons:
27-key membrane panel, tactile feel, PS/2 port for external keyboard connection

Temperature Range
Certified: 14°F to 104°F (-10°C to +40°C)
Operating: 14°F to 122°F (-10°C to +50°C)

Weight:
Universal enclosure: 9.5 lb (4.3 kg)
Wall mount enclosure: 23.0 lb (10.4 kg)
Panel mount enclosure: 8.5 lb (3.9 kg)
Deep universal: 11 lb (5.0 kg)

Rating/Material:
NEMA Type 4X/IP66, stainless steel

Warranty:
Two-year limited warranty

EMC Immunity:
EN 50082 Part 2 IEC EN 61000-4-2, 3, 4, 5, 6, 8, and 11

Approvals:
NTEP CC 01-088, Class III/IIIL 10,000d
Measurement Canada AM-5426, Class III/III HD 10,000d
OIML approved 6,000/10,000, UK 2658
UL/cUL Listed (universal, deep and wall mount enclosure)
UL/cUL Recognized (panel mount)
UL/cUL Listed 508A (custom wall mount)
CE Marked

Approvals

Measurement Canada Approved

Board Information:
Previous CPU board is green in color
Current CPU board is blue in color

Standard Features

- LCD display, (W x H) 4.6 in x 3.4 in
- Selectable character sizes from 0.25 in to 1.2 in
- 60 configurable operator prompts
- Display up to four scale channels per screen with required Legal for Trade information
- 32 scale accumulators
- Five softkeys with 10 user-defined, 14 preset functions per screen
- Ten programmable display screens
- Millivolt calibration, five-point linearization and geographical calibration
- NEMA Type 4X/IP66 stainless steel enclosure
- Selectable A/D measurement rate up to 960/second
- 100 setpoints, 30 configurable setpoint types
- Two slots for option cards
- 1,000-ID truck register for in/out weighing
- 64 K user on-board NV RAM
- User programmable 128 K flash memory
- Reflash memory to upgrade firmware
- Power for 16, 350 ohms load cells per A/D board
- Local-remote indicators
- Multi range/interval
- Alibi™ storage
- Audit trail tracking
- Peak hold
- Rate of change

USB Standard Features

- USB interface card on Port 2
- The USB card is supported on Rev L CPU boards or later
- The 920i for USB interface requires firmware version 5.0 or higher

Connector Types:
- Standard Type A: 920i connects to keyboard, ASCII font label ticket printers and flash drives
- Standard Type B: 920i connects to PC

USB Interface Functions:
- Supports weigh mode and configuration mode functions
- Supports upload of databases and .920 configuration file
- Supports download of databases, .920 configuration file, iRite, COD file and firmware file
- Sanity checks for command errors

Flash Drives:
- Supports USB 2.0
- Create sub directories by unit ID and database name
- Use the root directory for generic files

Optional Washdown Connectors page 518
- Sealed receptacle
- Connectors - cables
- USB cover - flash drive and receptacle

920i® Series
Programmable Weight Indicator/Controller

920i Universal Part Number/Price

Part #	Description	USB	Est. Weight	Price
Single-Channel				
67527	115 VAC†		10 lb	Consult
115003	115 VAC†	USB	10 lb	Consult
67615	230 VAC†		10 lb	Consult
120062	230 VAC†	USB	10 lb	Consult
69522	230 VAC††		10 lb	Consult
120074	230 VAC††	USB	10 lb	Consult
107713*	12-24 VDC, 25 watt		10 lb	Consult
120080*	12-24 VDC, 25 watt	USB	10 lb	Consult
Dual-Channel				
69767	115 VAC†		10 lb	Consult
120086	115 VAC†	USB	10 lb	Consult
69772	230 VAC†		10 lb	Consult
120090	230 VAC†	USB	10 lb	Consult
69774	230 VAC††		10 lb	Consult
120096	230 VAC††	USB	10 lb	Consult
No A/D Channel				
77790	115 VAC†		10 lb	Consult
120100	115 VAC†	USB	10 lb	Consult
77791	230 VAC††		10 lb	Consult
120104	230 VAC††	USB	10 lb	Consult

DC/DC converter installed option, not UL approved

†† CEE 7/7 plug (Euro)   † NEMA 5-15 plug
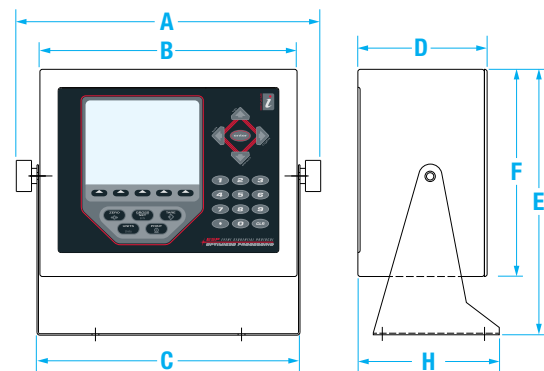
920i Deep Universal Part Number/Price

Part #	Description	USB	Est. Weight	Price
Single-Channel				
82455	115 VAC†		12 lb	Consult
115004	115 VAC†	USB	12 lb	Consult
82457	230 VAC†		12 lb	Consult
120064	230 VAC†	USB	12 lb	Consult
82459	230 VAC††		12 lb	Consult
120075	230 VAC††	USB	12 lb	Consult
107714*	12-24 VDC, 25 watt		12 lb	Consult
120081*	12-24 VDC, 25 watt	USB	12 lb	Consult
Dual-Channel				
82456	115 VAC†		12 lb	Consult
120087	115 VAC†	USB	12 lb	Consult
82458	230 VAC†		12 lb	Consult
120092	230 VAC†	USB	12 lb	Consult
82460	230 VAC††		12 lb	Consult
120097	230 VAC††	USB	12 lb	Consult
No A/D Channel				
93243	115 VAC†		12 lb	Consult
120101	115 VAC†	USB	12 lb	Consult
93244	230 VAC††		12 lb	Consult
120105	230 VAC††	USB	12 lb	Consult

DC/DC converter installed option, not UL approved

†† CEE 7/7 plug (Euro)   † NEMA 5-15 plug
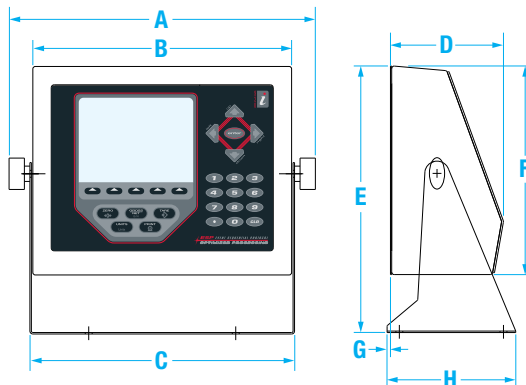
920i Universal Dimensions

A	12.50 in (318 mm)	D	4.61 in (117 mm)	G	0.14 in (3.5 mm)
B	10.56 in (268 mm)	E	10.87 in (276 mm)	H	5.25 in (206 mm)
C	10.90 in (277 mm)	F	8.50 in (216 mm)		

920i Deep Universal Dimensions

A	12.50 in (318 mm)	D	5.36 in (216 mm)	F	8.50 in (216 mm)
B	10.76 in (273 mm)	E	10.87 in (276 mm)	H	5.88 in (149 mm)
C	10.90 in (277 mm)				

920i Wall Mount Part Number/Price

Part #	Description	USB	Est. Weight	Price
Single-Channel				
69763	115 VAC†		23 lb	Consult
115005	115 VAC†	USB	23 lb	Consult
69765	230 VAC†		23 lb	Consult
120066	230 VAC†	USB	23 lb	Consult
72133	230 VAC††		23 lb	Consult
120078	230 VAC††	USB	23 lb	Consult
107715*	12-24 VDC, 25 watt		23 lb	Consult
120082*	12-24 VDC, 25 watt	USB	23 lb	Consult
Dual-Channel				
69770	115 VAC†		23 lb	Consult
120088	115 VAC†	USB	23 lb	Consult
69776	230 VAC†		23 lb	Consult
120093	230 VAC†	USB	23 lb	Consult
72134	230 VAC††		23 lb	Consult
120098	230 VAC††	USB	23 lb	Consult
No A/D Channel				
77794	115 VAC†		23 lb	Consult
120102	115 VAC†	USB	23 lb	Consult
77795	230 VAC††		23 lb	Consult
120106	230 VAC††	USB	23 lb	Consult

DC/DC converter installed option, not UL approved

†† CEE 7/7 plug (Euro)   † NEMA 5-15 plug

920i Panel Mount Part Number/Price

| Part #	Description	USB	Est. Weight	Price
Single-Channel				
69764	115 VAC†		9 lb	Consult
115006	115 VAC†	USB	9 lb	Consult
69766	230 VAC†		9 lb	Consult
120069	230 VAC†	USB	9 lb	Consult
72137	230 VAC††		9 lb	Consult
120079	230 VAC††	USB	9 lb	Consult
107716*	12-24 VDC, 25 watt		9 lb	Consult
120083*	12-24 VDC, 25 watt	USB	9 lb	Consult
Dual-Channel				
69771	115 VAC†		9 lb	Consult
120089	115 VAC†	USB	9 lb	Consult
69777	230 VAC†		9 lb	Consult
120095	230 VAC†	USB	9 lb	Consult
72138	230 VAC††		9 lb	Consult
120099	230 VAC††	USB	9 lb	Consult
No A/D Channel				
77792	115 VAC†		9 lb	Consult
120103	115 VAC†	USB	9 lb	Consult
77793	230 VAC††		9 lb	Consult
120107	230 VAC††	USB	9 lb	Consult

DC/DC converter installed option, not UL approved

†† CEE 7/7 plug (Euro)   † NEMA 5-15 plug
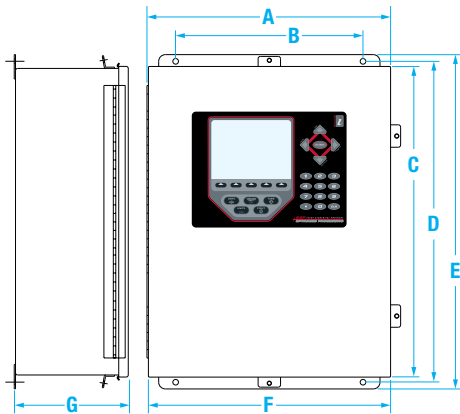
920i Wall Mount Dimensions

A	14.30 in (363 mm)	D	18.84 in (479 mm)	F	14.30 in (363 mm)
B	11.00 in (279 mm)	E	19.63 in (499 mm)	G	6.75 in (171 mm)
C	18.20 in (462 mm)				
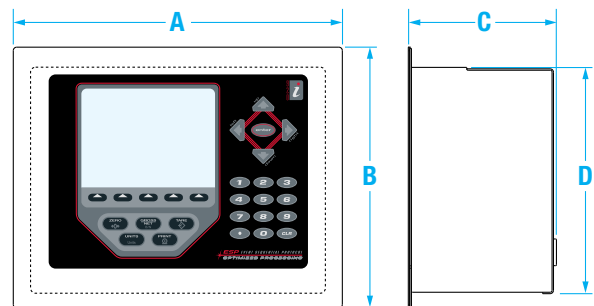
920i Panel Mount Dimensions

A	11.56 in (294 mm)	C	5.20 in (132 mm)
B	9.16 in (233 mm)	D	7.95 in (202 mm)

920i® Series
Programmable Weight Indicator/Controller

Options/Accessories

Part #	Description	Price
Option Cards		
68532	A/D, single-channel	Consult
68533	A/D, dual-channel	Consult
67600	Memory, 1 MB NV RAM	Consult
67601	Digital I/O, 24-channel TTL output	Consult
67602	Analog output: selectable 0-10 V, 0-20 mA	Consult
103138	Analog output, dual-channel 0-10 V, 0-20 mA	Consult
67603	Pulse input, single-channel	Consult
67604	Serial port card, dual-channel, RS-232 and RS-485	Consult
87697	Analog input +/-10 VDC, 0-20 mA and thermocouple	Consult
Network Cards		
65383	Ethernet Thin Server (external)	Consult
71986	Ethernet TCP/IP 10/100 module (internal) page 562	Consult
98057	Wireless LAN module 802.11 b/g page 562	Consult
87803	EtherNet/IP® page 561	Consult
68539	Remote I/O interface page 559	Consult
68540	Profibus® DP interface page 559	Consult
187816	Profinet® I/O interface page 559	Consult
68541	DeviceNet™ interface page 560	Consult
103136	ControlNet® interface page 561	Consult
Expansion Cards		
69782	Two-slot expansion board (wall mount)	Consult
71743	Two-slot expansion board (panel mount and deep universal)	Consult
179488	Two-slot expansion board (wall mount DC powered)	Consult
180047	Two-slot expansion board (deep universal and panel mount, DC powered)	Consult
69783	Six-slot expansion board (wall mount)	Consult
Hardware		
83569	Clear protective overlay (package of 5)	Consult
70056	Cable, DB9M to DB9F, Straight Cable	Consult
99149	Keyboard, QWERTY 109-key USB, flexible, washable	Consult
77788	Fiber optic board, installed in 920i	Consult
92777	Filter, PreVent™ vent kit PG 7 cord grip	Consult
19368	Start/stop controls without box, for use on wall mount	Consult
19369	Start/stop switch with FRP box	Consult
Manuals and Software		
69781	iRev™ scale software	Consult
72809	920i interchange® database software	Consult
67887	Additional installation manual	Consult
67888	Additional programming reference	Consult
Primary Component Parts		
186272***	CPU board assembly for LED backlight, (blue color)	Consult
186275***	Display board, LED back light, transmissive	Consult
186276***	Display board, LED back light, transflective	Consult
67613	AC power supply, 25 watt for universal	Consult
71333	AC power supply, 65 watt for deep, panel and wall mount	Consult
132791	Power supply 12-24VDC, 25 watt	Consult
66502	Switch panel membrane	Consult

***Design change in 2018 to LED backlight display. See replacement parts for CCFL backlight display and green CPU board Rev N or older.

The LED backlight display can be used with green CPU board Rev N or older by replacing the power supply cable. Universal 186464 (AC) 186464 (DC); Deep universal 186278 (AC) 187603 (DC); Panel 186278 (AC) 187603 (DC); Wall 186760 (AC) 188345 (DC); Two-slot expansion for wall 188716 (AC) 189724 (DC); Two-slot expansion panel for deep universal 188717 (AC) 189725 (DC); Six-slot expansion for wall 188774 (AC).

Options/Accessories

Part #	Description	Sealed A	Sealed B	Unsealed A	Unsealed B	Price
USB Cable Options Note: Connector is a male plug		**Connector Type**				
79074	Unsealed connectors USB-A to USB-B, 2 m cable			X	X	Consult
124700	Sealed connectors, USB-A to USB-B, 3 m IP68 cable	X	X			Consult
126477	Sealed connector USB-A to unsealed connector USB-A, 3 m IP68 cable	X		X		Consult
124701	Sealed connector USB-A to unsealed connector USB-B, 3 m IP68 cable	X			X	Consult
124702	Sealed connector USB-B to unsealed connector USB-A, 3 m IP68 cable		X	X		Consult
124695	Panel plug 1.125 in diameter					Consult

Part #	Description	Sealed	Unsealed	Price
USB Receptacles Note: Receptacle is a socket				
126476	Sealed receptacle USB-A for wall mount, 0.5 m cable	X	X	Consult
124703	Sealed receptacle USB-A to unsealed connector USB-B , 0.5 m cable	X	X	Consult
124704	Sealed receptacle USB-B to unsealed connector USB-B , 0.5 m cable	X	X	Consult
125998*	Sealed receptacle USB-A to five-pin connector, 0.28 m cable (internal to 920i)	X		Consult
125999*	Sealed receptacle USB-B to five-pin connector, 0.28 m cable (internal to 920i)	X		Consult
124694	Cover for sealed receptacles			Consult
124689	Cover for flash driver mounts on sealed receptacle			Consult
125077	Rice Lake USB flash drive, 1 GB			Consult
Ethernet Cables		**Sealed**	**Unsealed**	
124706	Sealed to sealed, 3 m cable	X		Consult
124707	Sealed to unsealed connector, 3 m cable	X	X	Consult
Ethernet Receptacles		**Sealed**	**Unsealed**	
126353*	RJ-45 receptacle sealed, 0.28 m internal to 920i (requires Ethernet TCP/IP option installed)	X		Consult

*These options require a milled back plate which has two cutouts. If ordering only one receptacle, a plug (PN 124695) is required for the second cutout. USB enclosure parts with cutout: PN 119891 (Universal) PN 115118 (Universal Deep) PN 126585 (Wall Mount)
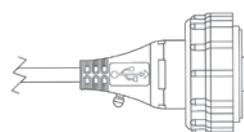
Unsealed Connectors

Type B
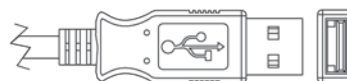
Type A

Sealed Connector   *Sealed Receptacle*

Backplate