



Note: Idler not included



920i<sup>®</sup> Integrator



Speed Wheel



Magnetic Shaft Encoder

## STANDARD FEATURES

- Large 4.6 in W x 3.4 in H 320 x 240 pixel back-lit LCD graphical display
- NEMA 4X/IP66 stainless steel display enclosure
- Four bidirectional communication ports
- Rate and speed time displayed by the hour, minute or second
- Measurement displayed in feet or meters
- Unit of rate displayed in tons, pounds, kilograms, metric tons or long tons
- Digital I/O for totalizer
- Analog outputs optional
- Alarm outputs optional
- For added security, integrator has the ability to be password protected
- Communication protocol cards include Rockwell Automation's DeviceNet™, Rockwell Automation's Remote I/O, Rockwell Automation's Ethernet IP™, Profibus® DP, 4-20mA analog output, Ethernet TCP/IP, RS-232, RS-485, 20mA current loop
- Built in support for ticket printing

## APPROVALS



## WEIGH FRAME SPECIFICATIONS

### CONVEYOR WIDTHS:

18 in to 72 in

### CAPACITY:

Up to 10,000 tph

### BELT SPEED:

Up to 1,200 fpm

### ACCURACY GUIDELINES:

Single idler system: 0.5%-1% total error  
 Two idler system: 0.25%-0.5% total error  
 Three idler system: <0.5% total error  
 Four idler system: <0.25% total error

### SYSTEM ACCURACY:

Guidelines assume clean belt with automatic tensioning system. Accuracy guidelines are typical. System accuracy may vary depending on environmental influences.

### APPLICATIONS:

Mining, quarries, bulk material blending, process control applications, utilities, truck/barge/rail loading, retrofit applications

## 920I INTEGRATOR SPECIFICATIONS

### POWER:

Line voltages: 115 or 230 VAC,  
 Frequency: 50 or 60 Hz  
 Power consumption:  
 340 mA, maximum @ 115 VAC (26 W) 240 mA @ 230 VAC (26 W)

### 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 @ 7.5 Hz  
 1.0 μV/graduation typical @ 120 Hz  
 4.0 μV/graduation typical @ 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:

Four 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: 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

### DISPLAY:

4.6 in W x 3.4 in H (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, PS/2 port for external keyboard connection

### OPERATING TEMPERATURE:

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

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# BELT SCALE INTEGRATOR SPECIFICATIONS CONTINUED

**DIMENSIONS:**

Universal: 10.5in W x 10.9in H x 4.5in D  
 (266 W x 215 H x 114mm D)  
 Deep Universal: 10.75in W x 10.75in H x 5.4in D  
 (273 W x 273 H x 137mm D)

**WEIGHT:**

Universal enclosure: 9.5lb (4.3kg)  
 Panel Mount enclosure: 8.5lb (3.9kg)  
 Deep Universal: 11 lb (5.0kg)

**RATING/MATERIAL:**

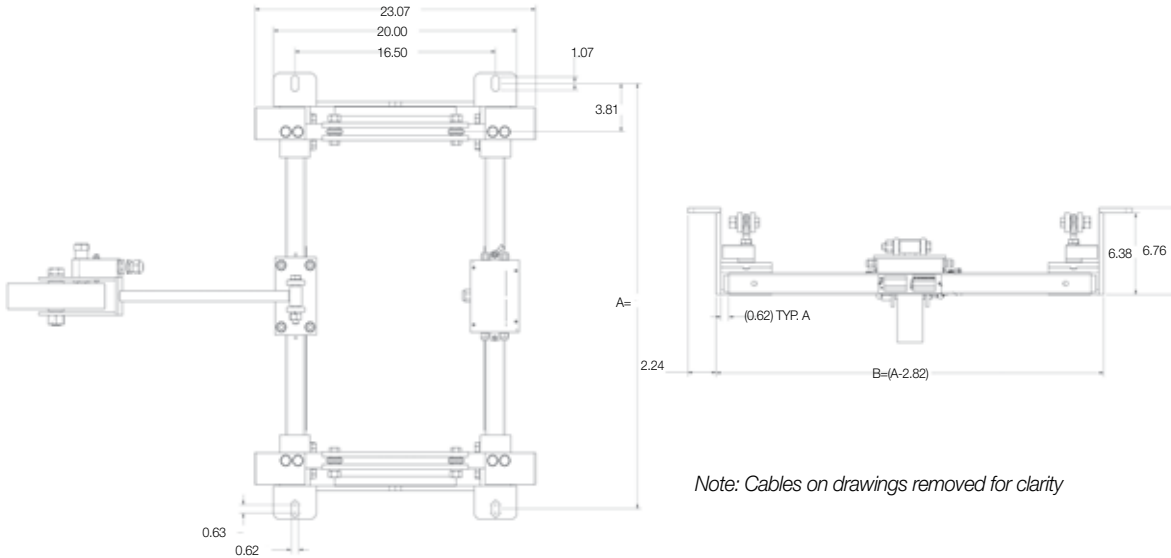
NEMA 4X/IP66, stainless steel

**APPROVALS:**

CE marked;  
 UL & C-UL listed (Universal, Deep & Wall Mount Enclosure)  
 (Custom Wall Mount approved for 508A) (Optional)  
 Panel Mount UL recognized

**WARRANTY:**

Two-year limited warranty



Note: Cables on drawings removed for clarity

**BELT SCALE TEST WEIGHTS**

PART #	DESCRIPTION	ESTIMATED BELT WIDTH	CAPACITY
95205.....	20 in weigh frame.....	14 in.....	500 lb.....
95206.....	22 in weigh frame.....	16 in.....	500 lb.....
94968.....	24 in weigh frame.....	18 in.....	500 lb.....
95207.....	26 in weigh frame.....	20 in.....	500 lb.....
95208.....	30 in weigh frame.....	24 in.....	500 lb.....
95209.....	36 in weigh frame.....	30 in.....	500 lb.....
95210.....	42 in weigh frame.....	36 in.....	500 lb.....
95211.....	48 in weigh frame.....	42 in.....	500 lb.....
95212.....	54 in weigh frame.....	48 in.....	500 lb.....
96717.....	60 in weigh frame.....	54 in.....	1,000 lb.....
96718.....	66 in weigh frame.....	60 in.....	1,000 lb.....
96719.....	72 in weigh frame.....	66 in.....	1,000 lb.....

**Integrators**

107615.....	Belt scale integrator with UPS 115 VAC.....
107616.....	Belt scale integrator with UPS 230 VAC.....
95214.....	Belt scale integrator 115VAC.....
95215.....	Belt scale integrator 230VAC.....

**Speed Wheel**

94969.....	Speed wheel assembly.....	10 PPR NPN Configuration.....
100038.....	Magnetic shaft encoder.....	12 PPR NPN Configuration.....
104014.....	Magnetic shaft encoder.....	40 PPR NPN Configuration.....

**Idler Mounting Bolts**

98806.....	3 in Angle Iron Base.....
99323.....	4 in Angle Iron Base.....

**Static Weights**

99708.....	15 lb weight.....
99709.....	30 lb weight.....
99696.....	3 in Static Weight Mounting Bracket (Set of 2).....

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