iQUBE 2®

Digital Diagnostic Junction Box



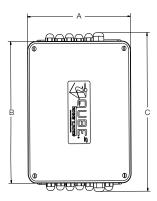


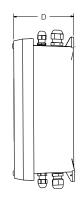
Standard Features:

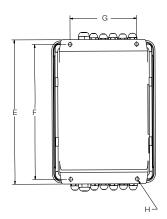
- iQUBE2® board has four A/D channels
- Stainless steel or Fiberglass Reinforced Polyester (FRP), NEMA Type 4X polyester enclosure
- Supports networking up to four boards, for 16 A/D channels. Connection can be up to four separate
 platforms with a system total, or four separate scales systems
- Diagnostic routines for weighing errors and system health
- Cell tests for overloaded, underloaded, zero reference, drift, noise, and unbalanced conditions
- Onboard status LEDs for communications and visual bi-color indication of cell health
- Cell emulator compensates for load cell failure until a repair can be made
- Cal-Match® algorithm automatically trims and calibrates the scale in one pass of test weights (stopping over each mount)
- Standard communication RS-232/RS-422
- Option card slot for fiber-optic, Ethernet TCP/IP, wireless TCP/IP, USB or RS-232/485
- Four digital I/O per card, for push button operation, setpoint controller cell status

Dimensions

Stainless Steel 8 in x 10 in						
Α	8.91 in (226.3 mm)	E	11.50 in (292.1 mm)			
В	10.13 in (257.3 mm)	F	10.75 in (268.5 mm)			
С	12.57 in (319.3 mm)	G	6.00 in (152.4 mm)			
D	4.29 in (109 mm)	Н	0.312 in (7.9 mm)			
FRF	FRP Large 10 in x 12 in					
Α	11.30 in (287 mm)	Е	13.53 in (343.7 mm)			
В	13.33 in (338.6 mm)	F	12.76 in (324.1 mm)			
С	14.00 in (355.6 mm)	G	8.00 in (203.2 mm)			
D	5.57 in (141.5 mm)	Н	0.312 in (7.9 mm)			
FRP Small 8 in x 10 in						
Α	9.31 in (236.5 mm)	Е	11.51 in (287.2 mm)			
В	11.31 in (287.2 mm)	F	10.75 in (273.1 mm)			
С	12.85 in (326.4 mm)	G	6.00 in (152.4 mm)			
D	5.42 in (137.7 mm)	Н	0.312 in (7.9 mm)			







Specifications:

Enclosure:

Stainless steel or Fiberglass Reinforced Polyester (FRP), NEMA Type 4X enclosure

Voltage Input:

115/230 VAC power supply DC/DC converter for 9-36 V 6-12 VDC to CPU

Load Cell Inputs:

4 channels per board up to 4 networked boards

A/D Sampling Rate:

2.5-500 Hz (selectable)

Temperature Range:

14°F to 104°F (-10°C to 40°C)

Analog Signal Sensitivity:

0.3 uV/grad at 30 Hz 0.5 uV/grad at 100 Hz 1.2 uV/grad at 500 Hz

Load Cell Excitation:

5 VDC, 57 mA maximum per channel

Analog Range:

-4.5 mV/V to 4.5 mV/V

Approvals:

NTEP 03-032 Measurement Canada - AM-5561, Rev. 1 UL E151461 CE

Warranty:

Two-year limited warranty

Applications:

- · Truck and railroad scales
- · Tank and hopper scales
- · Multi-channel scales
- Interfaces to 920i[®], Virtui2[®], and ASCII serial commands



Part Number/Price

Part#	Description	Est. Weight	Price			
With AC Power Supply						
108425*	iQUBE2, four-channel, FRP 8 in x 10 in junction box	9 lb	\$1,045.00			
108426	iQUBE2, four-channel, FRP 10 in x 12 in junction box	11 lb	\$1,195.00			
108427	iQUBE2, eight-channel, FRP 10 in x 12 in junction box	11 lb	\$1,945.00			
108428*	iQUBE2, four-channel, stainless steel 8 in x 10 in junction box	13 lb	\$1,695.00			
Without Power Supply						
108429*	iQUBE2, four-channel, FRP 8 in x 10 in junction box	8 lb	\$925.00			
108430	iQUBE2, four-channel, FRP 10 in x 12 in junction box	10 lb	\$1,095.00			
108431	iQUBE2, eight-channel, FRP 10 in x 12 in junction box	10 lb	\$1,845.00			
108432*	iQUBE2, four-channel, stainless steel 8 in x 10 in junction box	12 lb	\$1,650.00			
Conduit Adaptors						
92734	Conduit adaptor 3/8 in NTP to 3/4 in NPT		\$25.00			
92735	Conduit adaptor 1/2 in NTP to 3/4 in NPT		\$25.00			

^{*} Enclosure size 8 in x 10 in required for truck scale junction box pocket

Options/Accessories

Part #	Description	Price				
108433	Four-channel iQUBE2 board with cables and connectors	\$745.00				
97475	DC/DC power supply, 9-36 VDC(requires factory installation)	\$160.00				
108434	Remote power supply 115/230 VAC and transient board with enclosure	\$255.00				
109396	Transient board	\$65.00				
110949	Transient board with mount	\$80.00				
161936	Hotspot Wi-Fi 802.11 a, b, g	\$1,195.00				
161954	Hotspot in FRP enclosure	\$2,245.00				
Communic	Communication Card					
108579	RS-232/RS-485 port	\$260.00				
77142	Ethernet TCP/IP	\$400.00				
108671	Wireless LAN 802.11 B/G	\$570.00				
93245	USB port	\$160.00				
77143	Fiber-optic board	\$200.00				
77788	Fiber-optic board (installed in 920i)	\$200.00				
Duplex Fib	er (Max Run 350 ft)					
78026	Fiber-optic cable, 100 ft	\$135.00				
78027	Fiber-optic cable, 200 ft	\$270.00				
78910	Fiber-optic cable, custom length	\$1.35/ft				
Home Run	Cable					
116587	EL166 16 gauge, six conductor, shielded	\$2.65/ft				
Software						
77925	Revolution® configuration software	\$35.00				
108435	Virtui2® virtual indicator demo CD	N/C				
108436	Virtui2 activation part number	\$500.00				
112262	Firmware update flash cable	\$50.00				
920i® Indic	ators for use with iQUBE2, requires version 4 software					
77790	920i universal, 115 VAC, without A/D	\$1,945.00				
77791	920i universal, 230 VAC, without A/D	\$1,945.00				
93243	920i deep universal, 115 VAC, without A/D	\$2,145.00				
93244	920i deep universal, 230 VAC, without A/D	\$2,145.00				
77792	920i panel mount, 115 VAC, without A/D	\$1,945.00				
77793	920i panel mount, 230 VAC, without A/D	\$1,945.00				
77794	920i wall mount, 115 VAC, without A/D	\$2,545.00				
77795	920i wall mount, 230 VAC, without A/D	\$2,545.00				



Sample Configurations*

*Not an actual system—illustrates connectivity