Digital Diagnostic Junction Box





Standard Features

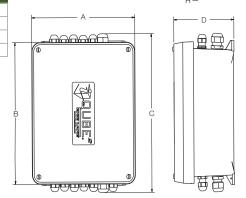
- iQUBE^{2®} board has four A/D channels
- Stainless steel or Fiberglass Reinforced Polyester (FRP), NEMA Type 4X enclosure
- Supports networking up to four boards, for 16 A/D channels; connection can be up to four separate platforms with a system total, or four separate scale systems
- Diagnostic routines for weighing errors and system health
- · Cell tests for overloaded, underloaded, zero reference, drift, noise and unbalanced conditions
- Onboard status LEDs for communication 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 control or cell status

Applications

- Truck and railroad scales
- Tank and hopper scales
- Multi-channel scales
- Communicates to 920i[®], 1280, VIRTUi2[®] and ASCII serial commands

Dimensions

Stainless Steel 8 in x 10 in							
А	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)				
FRP Large 10 in x 12 in							
А	11.30 in (287 mm)	E	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							
А	9.31 in (236.5 mm)	E	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 V AC power supply DC/DC converter for 9-36V

6-12 V DC to CPU

Load Cell Inputs:

Four channels per board up to four networked boards

A/D Sampling Rate: 2.5-500 Hz (selectable)

Temperature Range: Certified: 14°F to 104°F (-10°C to 40°C) Operating: -13°F to 140°F (-25°C to 60°C) Storage: 14°F to 158°F (-25°C to 70°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 V DC, 57 mA maximum per channel

Analog range: -4.5 mV/V to 4.5 mV/V

Approvals:

NTEP 03-032A1 Measurement Canada - AM-5561, Rev. 1 UL E151461

CE Warranty:

Two-year limited warranty

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Part Number/Price

Part#	Description	Est. Weight	Price			
With AC F	With AC Power Supply					
108425*	iQUBE2, four-channel, FRP 8 in x 10 in junction box	9 lb	\$1,100.00			
108426	iQUBE2, four-channel, FRP 10 in x 12 in junction box	11 lb	\$1,300.00			
108427	iQUBE2, eight-channel, FRP 10 in x 12 in junction box	11 lb	\$2,100.00			
108428*	iQUBE2, four-channel, stainless steel 8 in x 10 in junction box	13 lb	\$1,800.00			
Without Power Supply						
108429*	iQUBE2, four-channel, FRP 8 in x 10 in junction box	8 lb	\$1,000.00			
108430	iQUBE2, four-channel, FRP 10 in x 12 in junction box	10 lb	\$1,200.00			
108431	iQUBE2, eight-channel, FRP 10 in x 12 in junction box	10 lb	\$2,000.00			
108432*	iQUBE2, four-channel, stainless steel 8 in x 10 in junction box	12 lb	\$1,800.00			
Conduit A	.daptors					
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

Note: Do not mix junction box models or use other brands of junction boxes with Rice Lake junction boxes. There is a risk of system instability.

Options/Accessories

Part #	Description	Price
108433	Four-channel iQUBE2 board with cables and connectors	\$800.00
97475	DC/DC power supply, 9-36 VDC(requires factory installation)	\$175.00
108434	Remote power supply 115/230 VAC and transient board with enclosure	\$275.00
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	\$2,795.00
Commun	ication 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	\$175.00
77143	Fiber-optic board	\$200.00
77788	Fiber-optic board (installed in 920i)	\$200.00
Duplex Fi	iber (Max Run 350 ft)	
78026	Fiber-optic cable, 100 ft	\$140.00
78027	Fiber-optic cable, 200 ft	\$280.00
78910	Fiber-optic cable, custom length	\$1.40/ft
Home Ru	ın 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 [®] Ind	licators for use with iQUBE2, requires version 4 software	
77790	920i universal, 115 VAC, without A/D	\$2,025.00
77791	920i universal, 230 VAC, without A/D	\$2,025.00
93243	920i deep universal, 115 VAC, without A/D	\$2,225.00
93244	920i deep universal, 230 VAC, without A/D	\$2,225.00
77792	920i panel mount, 115 VAC, without A/D	\$2,025.00
77793	920i panel mount, 230 VAC, without A/D	\$2,025.00
77794	920i wall mount, 115 VAC, without A/D	\$2,625.00
77795	920i wall mount, 230 VAC, without A/D	\$2,625.00



Sample Configurations*

*Not an actual system—illustrates connectivity

iQUBE^{2®}

Digital Diagnostic Junction Box

Options/Accessories

Part #	Description	Price		
1280 Indicators for use with iQUBE2				
189623	1280 7 in touch-only, AC power supply, no power cord, standard display, without A/D	\$2,480.00		
188526	1280 7 in touch-only, AC power supply, no power cord, high visibility display, without A/D	\$2,580.00		
188395	1280 12 in touch-only, AC power supply, no power cord, high visibility display, without A/D	\$3,180.00		
181073	1280 panel mount, DC power supply, no power cord, standard display, without A/D	\$2,480.00		
178473	1280 panel mount, AC power supply, no power cord, high visibility display, without A/D	\$2,580.00		
176214	1280 wall mount, AC power supply, U.S. power cord, standard display, without A/D	\$2,680.00		
171667	1280 wall mount, AC power supply, U.S. power cord, high visibility display, without A/D	\$2,940.00		
174750	1280 panel mount, AC power supply, no power cord, standard display, without A/D	\$2,480.00		
174207	1280 universal, AC power supply, Europe power cord, standard display, without A/D	\$2,680.00		
171582	1280 universal, AC power supply, U.S. power cord, standard display, without A/D	\$2,680.00		
188713	1280 universal, DC power supply, no power cord, standard display, without A/D	\$2,645.00		
171540	1280 universal, DC power supply, no power cord, high visibility display, without A/D	\$2,705.00		
172419	1280 universal, AC power supply, U.S. power cord, high visibility display, without A/D	\$2,780.00		