

1280 Enterprise™ Series

Programmable Color Touchscreen Weight Indicator and Controller



Approvals



Measurement
Canada
Approved



Standard Features

- Customizable color touchscreen with graphical user interface
- User-defined softkeys, icons and graphics
- Tactile keypad for scale operations, numeric entry and navigation
- On-screen keyboard available during entry mode (or external keyboard)
- Built-in web server for remote access, systems integration and data monitoring
- Multi-language operation and text entry
- Supports eight scales within five different kinds:
 - Analog load cell, multi-range/interval weighing
 - Total scale summing
 - Serial input scales
 - iQUBE² scales
 - Program scales
- Six smart card slots for additional scale channels, serial ports, digital inputs and outputs, analog outputs and protocol interfaces
- iRite™ Programming Software
 - Five built-in applications: Truck in/out, recipe storage, filling/dosing, counting, checkweighing
 - Customizable user programs with event-based functions
 - 150 built-in functions for common processes & data tables
 - Customize and transfer data via email, FTP server and networked printers
 - Display data with line charts or bar graphs
 - iRite reporting of iQUBE² alerts
- Email, USB, Ethernet TCP/IP, Wi-Fi Direct®, two serial ports RS-232 or RS-485
- Alibi memory captures serial port transmissions
- Four configurable data-stream formats for PC, printers and remote displays
- 100 setpoints, 18 configurable setpoint types
- Eight digital I/O for control and pulse count
- Three different enclosure types: universal with tilt stand, panel mount and wall mount

Specifications

Power:

AC voltages: 100 to 240 VAC; 50/60 Hz
DC voltages: 11 to 30 VDC

Power Consumption:

60W

Excitation Voltage:

10 VDC (+/- 5 VDC)
16 × 350 ohm or 32 × 700 ohm load cells per A/D card

Analog Signal Input Range:

-60 mV to 60 mV

Analog Signal Sensitivity:

0.3 µV/graduation minimum at 7.5 Hz to 120 Hz
1.0 µV/graduation recommended

A/D Sample Rate:

7.5 to 960 Hz, software selectable

Resolution:

Internal: 8,000,000 counts
Display: 1,000,000

System Linearity

± 0.01% full scale

Digital I/O:

Eight I/O channels on CPU board
Optional 24-channel I/O expansion boards

Communication Ports:

Port 1 & 2: Full duplex RS-232 with CTS/RTS, RS-422/485
Baud rate: 1200 to 115200
Port 3: USB 2.0 Device (Micro)
USB host: (2) Type A connectors max 500 mA
Ethernet: Wired 10/100 Auto-MDX
Ethernet: Wireless 802.11 b/g/n 2.4GHz

Onboard:

Selectable filters: Three stage, Adaptive or Damping
Embedded Linux® OS
8 GB eMMC (system use)
1 GB DDR3 RAM
460 MB onboard database (SQLite) storage
Up to 32 GB micro SD card (sold separately)

Display:

Seven-inch, 800 × 480 pixel, 500 or 1,000 NIT
Twelve-inch, 1280 × 800 pixel, 1,500 NIT

Keys/Buttons:

22-key membrane panel, tactile buttons, on-screen keyboard for text and numeric entry, USB port for flash drive, keyboard and printer

Temperature Range:

Certified: 14 °F to 104 °F (-10 °C to 40 °C)
Operating: -4 °F to 131 °F (-20 °C to 55 °C)

Rating/Material:

Universal: IP69K
Wall Mount: IP66
Panel Mount: IP69K, NEMA Type 4X and 12
Stainless steel 304 enclosure

Weight:

Universal enclosure: 11 lb (4.9 kg)
Panel mount enclosure: 8 lb (3.6 kg)
Wall mount enclosure: 23 lb (10.4 kg)
Panel mount 7 in touch-only: 7 lb (3.1 kg)
Panel mount 12 in touch-only: 10 lb (4.5 kg)

Warranty:

Two-year limited

EMC Immunity:

10 V/m

Approvals:

NTEP 15-001/Class III/IIIL 10,000d
Measurement Canada AM-5980C,
Class III/III HD 10,000d
OIML R76/2006-A-NL1-19.23 Class III/III 10,000d
EU Test Certificate TC8596
cULus Listed (Universal, Wall Mount)
cULus Recognized (Panel Mount)
CE Marked

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7-inch model with keypad

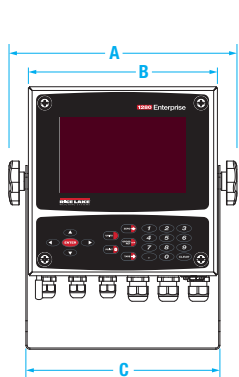


7-inch touch-only model

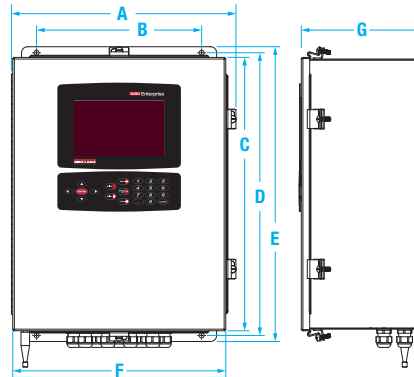
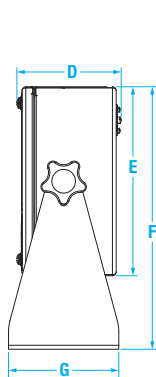


12-inch touch-only model

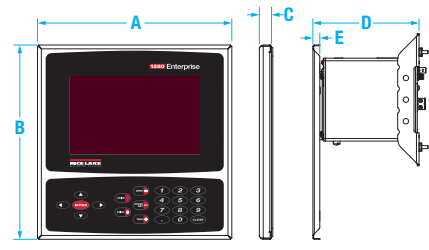
Numeric Keypad Models:



1280-2



1280-3



1280-4

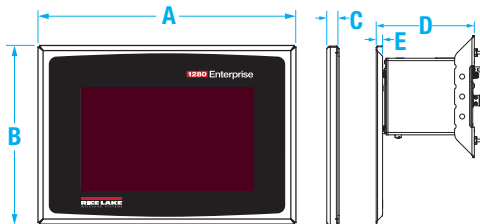
Dimensions

Universal (1280-2)			
A	10.86 in (276 mm)	E	9.00 in (229 mm)
B	9.00 in (229 mm)	F	12.50 in (318 mm)
C	9.24 in (235 mm)	G	5.25 in (133 mm)
D	4.97 in (126 mm)		

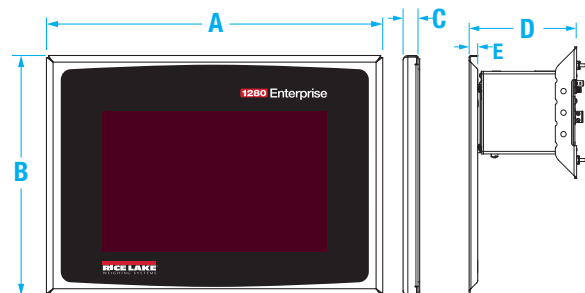
Wall Mount (1280-3)			
A	14.92 in (379 mm)	E	19.64 in (499 mm)
B	11.00 in (279 mm)	F	14.20 in (361 mm)
C	18.22 in (463 mm)	G	8.08 in (205 mm)
D	18.84 in (479 mm)		

Panel Mount (1280-4)			
A	9.00 in (229 mm)	D	5.34 in (136 mm)
B	9.00 in (229 mm)	E	0.32 in (8 mm)
C	0.58 in (15 mm)		

Touch-only Models:



1280-5



1280-6

Dimensions

7-inch Touch-only (1280-5)			
A	9.00 in (229 mm)	D	5.34 in (136 mm)
B	6.22 in (158 mm)	E	0.32 in (8 mm)
C	0.58 in (15 mm)		

12-inch Touch-only (1280-6)			
A	14.00 in (356 mm)	D	5.34 in (136 mm)
B	10.00 in (254 mm)	E	0.32 in (8 mm)
C	0.58 in (15 mm)		

INDICATORS / CONTROLLERS

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Part Number/Price

Part #	Description	Power	Display	Option Installed	Price
Universal Enclosure with 500 NIT Display (1280-2)					
171427 †	1280 Universal	115 VAC	500 NIT	Single Scale Card	\$3,550.00
171441 ††	1280 Universal	100-240 VAC	500 NIT	Single Scale Card	\$3,550.00
171662 †	1280 Universal	115 VAC	500 NIT	Dual Scale Card	\$3,750.00
172188 ††	1280 Universal	100-240 VAC	500 NIT	Dual Scale Card	\$3,850.00
Panel Mount Enclosure with 500 NIT Display (1280-4)					
171663	1280 Panel Mount	100-240 VAC	500 NIT	Single Scale Card	\$3,425.00
172186	1280 Panel Mount	100-240 VAC	500 NIT	Dual Scale Card	\$3,650.00
Wall Mount Enclosure with 500 NIT Display (1280-3)					
173673 †	1280 Wall Mount	115 VAC	500 NIT	Single Scale Card	\$3,950.00
174143 ††	1280 Wall Mount	100-240 VAC	500 NIT	Single Scale Card	\$3,950.00
174144 †	1280 Wall Mount	115 VAC	500 NIT	Dual Scale Card	\$4,250.00
174145 ††	1280 Wall Mount	100-240 VAC	500 NIT	Dual Scale Card	\$4,250.00
Wall Mount Enclosure with 1000 NIT Display (1280-3)					
172184 †	1280 Wall Mount	115 VAC	1,000 NIT	Single Scale Card	\$4,050.00
172185 ††	1280 Wall Mount	100-240 VAC	1,000 NIT	Single Scale Card	\$4,050.00
206563 †	1280 Wall Mount	115 VAC	1,000 NIT	Dual Scale Card	\$4,250.00
172187 ††	1280 Wall Mount	100-240 VAC	1,000 NIT	Dual Scale Card	\$4,350.00
Touch-only 7 inch with 500 NIT Display (1280-5)					
186618	1280 Touch-only 7 in	100-240 VAC	500 NIT	Single Scale Card	\$3,450.00
Touch-only 12 inch with 1500 NIT Display (1280-6)					
186465	1280 Touch-only 12 in	100-240 VAC	1,500 NIT	Single Scale Card	\$4,075.00



† US plug (NA) - Type B



†† Euro Plug - Type E



(Brazil) - Type N



††† BS1363 (UK) - Type G



†††† AS 3112 (Australian) - Type I

INDICATORS / CONTROLLERS

Model Reference Chart

Choose any options to best fit your application and we customize

ENCLOSURE TYPE	POWER TYPE	DISPLAY TYPE	CORD TYPE	OPTION CARDS <small>ALL SLOTS MUST BE FILLED</small>
<ol style="list-style-type: none"> Universal (1280-2) Panel (1280-4) Wall (1280-3) Touch-only Panel 7 in (1280-5) Touch-only Panel 12 in (1280-6) 	<ol style="list-style-type: none"> AC DC 	<ol style="list-style-type: none"> 500NIT 7 in Universal 1000NIT 7 in Universal 500NIT 7 in Panel/Wall 1000NIT 7 in Panel/Wall 1500NIT 12 in Panel 	<ol style="list-style-type: none"> US Plug Universal Brazil Plug Universal Euro Plug Universal US Plug Wall Euro Plug Wall Brazil Plug Wall UK Plug Universal AU/NZ Plug Universal UK Plug Wall AU/NZ Plug Wall 	<ol style="list-style-type: none"> Blank <i>If no option, controller will need 6 blanks</i> Single A/D Scale Dual A/D Scale 24 Channel Digital I/O Dual Serial Channel 4-dry Contact Relay Single Analog Out Dual Analog Out Analog Input EtherNet/IP DeviceNet ProfiNet Modbus TCP Profibus DP EtherCat PowerLink

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Single A/D Scale



Excitation Voltage:
10 VDC bi-polar, 4 or 6 wire sensing
16 × 350 ohms per channel
Analog Input Signal:
-10 to +40 mV

Part #	Description	Price
220026	Single scale A/D	\$475.00
166957	A/D sealing kit	\$13.00

Dual A/D Scale



Excitation Voltage:
10 VDC bi-polar, 4 or 6 wire sensing
8 × 350 ohms per channel
Analog Input Signal:
-10 to +40 mV

Part #	Description	Price
220027	Dual scale A/D	\$675.00
166957	A/D sealing kit	\$13.00

Digital I/O



24 channels, configurable as inputs or outputs
Inputs: 5 VDC max, active low; Outputs: 20 mA max per channel, active low; 5 VDC source available: 500 mA max

Part #	Description	Price
164684*	Digital I/O	\$350.00
170008	DIO adapter, includes 60 pin flat ribbon cable, 24 in	\$130.00
170009	DIO adapter, includes 60 pin round cable, 60 in	\$155.00
170736	DIO adapter, includes 60 pin cable and cord grip, 60 in	\$155.00

* 24 I/O ribbon cable required.

Dual Serial Channel



Two-channel, full duplex RS-232 with CTS/RTS, RS-485 or RS-422, 1200-115200 baud

Part #	Description	Price
164685	Dual serial channel	\$425.00

Single Analog Out



16 bit, voltage output 0-10 VDC, current output 0-20mA, 4-20mA

Part #	Description	Price
165366	Single analog out	\$375.00

Dual Analog Out



16 bit, voltage output 0-10 VDC, current output 0-20mA, 4-20mA

Part #	Description	Price
164686	Dual analog out	\$550.00

Relay Card



Relay four-dry contact, max current 3A @ 30 VDC, 3A @ 250VAC

Part #	Description	Price
164689	Relay card	\$425.00

Analog Input



Analog Input Signal:
±10 VDC, ±100mV, 0-20 mA

Part #	Description	Price
164687	Dual analog input	\$650.00

Data Exchange with PLC/DCS Systems

EtherNet/IP



Part #	Description	Price
165792	EtherNet/IP, single port	\$620.00
208129	EtherNet/IP, dual port	\$805.00

DeviceNet



Part #	Description	Price
165793	DeviceNet	\$620.00

Profinet



Part #	Description	Price
165794	Profinet	\$620.00

Modbus TCP



Part #	Description	Price
165796	Modbus TCP	\$620.00

Profibus DP



Part #	Description	Price
165795	Profibus DP	\$620.00

EtherCAT



Part #	Description	Price
179533	EtherCAT	\$620.00

PowerLink



Part #	Description	Price
182319	PowerLink	\$905.00

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Options/Accessories

To have your option factory installed, please specify when placing your order.

Part #	Description	Price
Manuals and Software		
167659	Manual, Technical	\$35.00
72809	Interchange database software	\$295.00
164939	8 GB Micro SD card with SD and USB adapter	\$25.00
195607	USB flash drive, 1 GB	\$9.00
Extended Display Cable Length for Touch Only Models		
182600	Display cable for 7 in (500 NIT) touch-only, 5 ft length	\$130.00
182601	Display cable for 7 in (500 NIT) touch-only, 10 ft length	\$160.00
187489	Display cable for 7 in (1,000 NIT) touch-only, 10 ft length	\$160.00
180027	Display cable for 12 in touch-only, 5 ft length	\$160.00
180028	Display cable for 12 in touch-only, 10 ft length	\$160.00
Extended Touch Cable Length for Touch Only Models		
180744	Touch cable for touch-only, 5 ft length	\$105.00
180745	Touch cable for touch-only, 10 ft length	\$105.00

Primary Component Parts

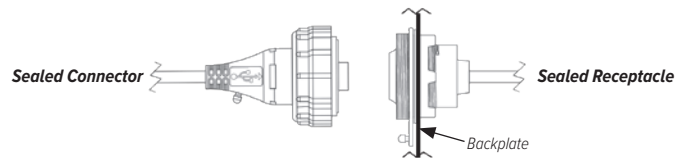
Part #	Description	Price
Displays		
163400	7 in 500 NIT display	\$350.00
163399	7 in 1,000 NIT display	\$450.00
182992	12 in 1,500 NIT display	\$995.00
Boards		
179992	CPU board assembly includes face plate and fan plate	\$1,100.00
199157	Controller box, CPU, power supply, backplane	\$1,500.00
Power Supplies		
202512	AC power supply board	\$180.00
202514	DC power supply board	\$180.00
Overlays		
164121	Keypad, for panel & wall mount	\$75.00
164120	Touchscreen, for panel & wall mount	\$130.00
161731	Keypad, for universal	\$75.00
161730	Touchscreen, for universal	\$130.00
178498	Touchscreen, for 7 in touch-only panel mount	\$295.00
176126	Touchscreen, for 12 in touch-only panel mount	\$400.00
178161	Clear protective overlay display for 7 in display (pack of 5)	\$63.00
178163	Clear protective overlay keypad for 7 in display (pack of 5)	\$63.00

Cables and Receptacles

To have your option factory installed, please specify when placing your order.

Part #	Connector Type		Length	Price
USB Cables (Connector is a male plug)				
79074	A UNSEALED	B UNSEALED	2 m	\$35.00
124700	A SEALED	B SEALED	3 m	\$90.00
126477	A SEALED	A UNSEALED	3 m	\$90.00
124701	A SEALED	B UNSEALED	3 m	\$90.00
124702	B SEALED	A UNSEALED	3 m	\$90.00
152434	A UNSEALED	Micro A UNSEALED	2 m	\$55.00
USB Receptacles (Receptacle is a socket)				
176790	A SEALED	A UNSEALED	0.75 m	\$105.00
126476	A SEALED	A UNSEALED	0.5 m	\$90.00
172735	A SEALED	A UNSEALED	0.25 m	\$90.00
Ethernet Cables				
72697	RJ-45 UNSEALED	RJ-45 UNSEALED	2 m	\$40.00
124706	RJ-45 SEALED	RJ-45 SEALED	3 m	\$90.00
124707	RJ-45 SEALED	RJ-45 UNSEALED	2 m	\$90.00
Ethernet Receptacles (Receptacle is a socket)				
176789	RJ-45 SEALED		0.75 m	\$105.00
172734	RJ-45 SEALED		0.5 m	\$90.00
126353	RJ-45 SEALED		0.25 m	\$90.00
Cable and Receptacle Accessories				
124694	Cover for sealed receptacles			\$13.00
124689	Cover for flash driver mounts on sealed receptacle			\$25.00

Unsealed Connectors



INDICATORS / CONTROLLERS