1280 Enterprise™ Series

Programmable Color Touchscreen Weight Indicator/Controller



Standard Features

- Seven-inch, 800 x 480 pixel, graphical color display that adjusts for ambient light conditions
- Twelve-inch, 1280 x 800 pixel, graphical color display that adjusts for ambient light conditions
- Highly customizable graphical user interface
- Three different enclosure types: universal with tilt stand, panel mount and wall mount
- Resistive color touchscreen that can be used with gloves
- On-screen keyboard available during entry mode or use an external keyboard
- Multi-language operation and text entry
- Keypad for scale operations, numeric entry and navigation
- More than 150 built-in functions for programming
- Customize applications and data tables with iRite™ software
- Built-in web server for remote access, systems integration and data monitoring
- Up to eight scales supporting five scale types:
  - Analog load cell scales
  - Total scales
  - Serial scales
  - Program scales
  - iQube2 scales
- Multi-range/interval weighing functions
- Eight digital I/O for control and pulse count
- 100 setpoints, 18 configurable setpoint types
- 22 soft keys with 10 user-defined
- Two RS-232 and RS-485 serial ports
- USB, Ethernet TCP/IP, Wi-Fi Direct and Bluetooth® ports

Options

- Six option slots that support:
  - A/D scale channels
  - Analog Input/Thermocouple
  - Digital input and outputs
  - Analog outputs
  - Serial ports
  - Four channel dry-contact relay
  - Various protocol interfaces

Additional models are available with the approvals shown here
Please consult the factory for part numbers.

Measurement Canada Approved

Approvals*

**** Touch-only units pending approvals***

Specifications

Power:
AC voltages: 100-240 VAC; 50-60 Hz
DC voltages: 11-30 VDC
Consumption: 60 W

Excitation Voltage:
10 ± 0,5 VDC
16 x 350Ω or 16 x 700Ω 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–120 Hz
1,0 µV/graduation recommended

A/D Sample Rate:
7,5 to 960 Hz, software selectable

Resolution:
Internal: 8 million counts
Display: Seven-digits

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)
Port 4: Bluetooth® SPP 2.1+EDR, Standards 4Mbaud
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 x 480 pixel, graphical color TFT 500 or 1000 NIT
Twelve-inch, 1280 x 800 pixel, graphical color TFT 1500 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: -10°C to 40°C
Operating: -20°C to 55°C

Weight:
Universal enclosure: 5 kg
Panel mount enclosure: 4 kg
Wall mount enclosure: 10 kg
Panel mount 7 in touch-only enclosure: 3 kg
Panel mount 12 in touch-only enclosure: 5 kg

Rating/Material:
IP66 stainless steel wall enclosure
IP69K stainless steel universal and panel mount door

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 15-00/Class III/IIIL 10,000d
Measurement Canada AM-5980C, Class III/III HD 10,000d
OIML R76/2006-NL1-16.04 Class III/IIII 10,000d
EU Test Certificate TC8596
UL/cUL Listed (universal)
UL/cUL Recognized (panel mount)
CE Marked

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7-inch model with keypad

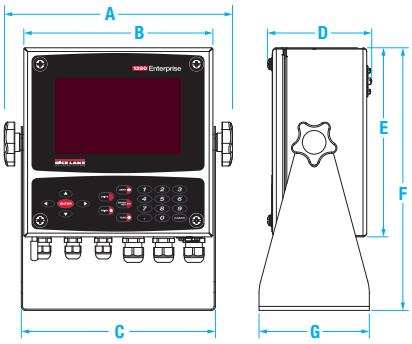


7-inch touch-only model

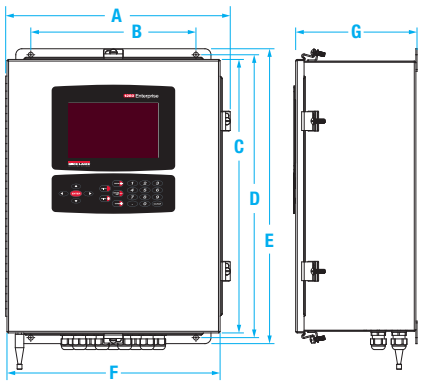


12-inch touch-only model

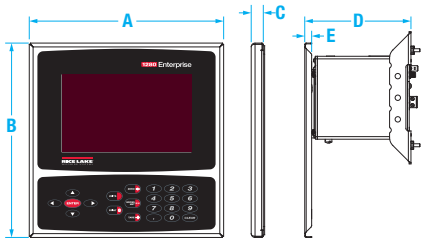
Numeric Keypad Models:



1280-2



1280-3



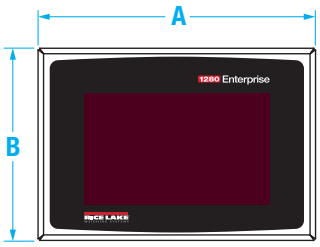
1280-4

Universal (1280-2) Dimensions			
A	276 mm	B	158 mm
C	235 mm	D	126 mm
E	229 mm	F	318 mm
G	133 mm		

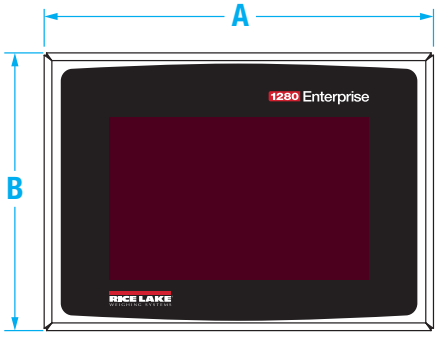
Wall Mount (1280-3) Dimensions			
A	379 mm	B	279 mm
C	463 mm	D	479 mm
E	499 mm	F	361 mm
G	205 mm		

Panel Mount (1280-4) Dimensions			
A	229 mm	B	229 mm
C	15 mm	D	136 mm
E	8 mm		

Touch-only Models:



1280-5



1280-6

7-inch Touch-only (1280-5) Dimensions			
A	229 mm	B	158 mm

12-inch Touch-only (1280-6) Dimensions			
A	356 mm	B	254 mm

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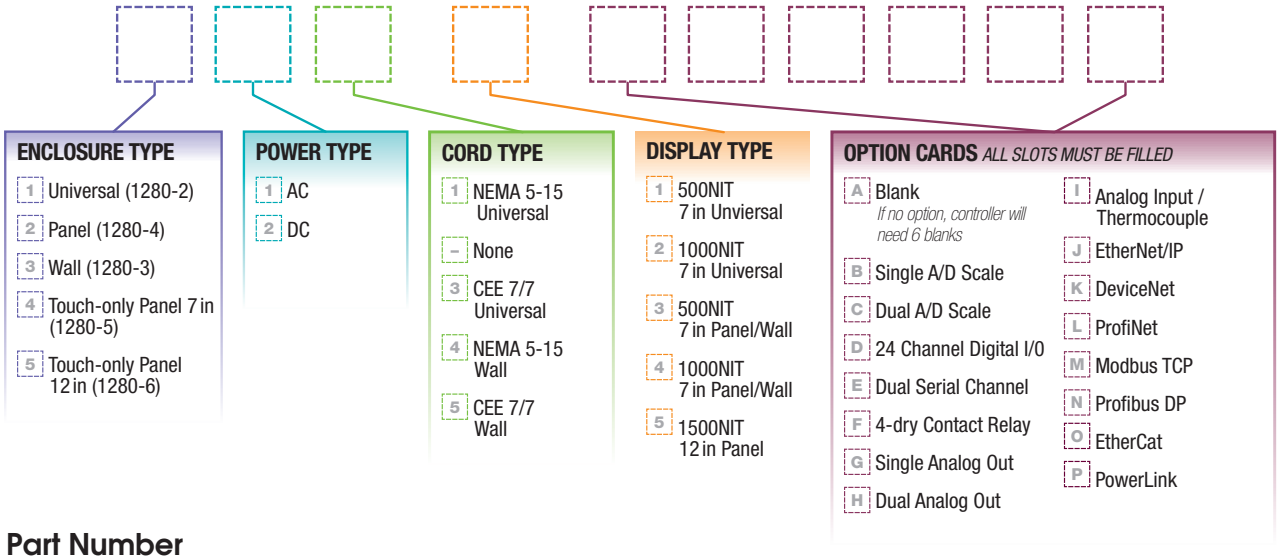
Generate a 1280 Enterprise Series Model Reference Code

This reference number can be used at time of ordering.



Part Number

Part #	Reference #	Description	Power	Display	Option Installed	Price
Universal Enclosure with 500 NIT Display (1280-2)						
171441 ††	1131BAAAAA	1280 Universal	100-240 VAC	500 NIT	Single Scale Card	Consult
172188 ††	1131CAAAAA	1280 Universal	100-240 VAC	500 NIT	Dual Scale Card	Consult
Panel Mount Enclosure with 500 NIT Display (1280-4)						
171663*	21-3BAAAAA	1280 Panel Mount	100-240 VAC	500 NIT	Single Scale Card	Consult
172186*	21-3CAAAAA	1280 Panel Mount	100-240 VAC	500 NIT	Dual Scale Card	Consult
Wall Mount Enclosure with 500 NIT Display (1280-3)						
174143 ††	3153BAAAAA	1280 Wall Mount	100-240 VAC	500 NIT	Single Scale Card	Consult
174145 ††	3153CAAAAA	1280 Wall Mount	100-240 VAC	500 NIT	Dual Scale Card	Consult
Wall Mount Enclosure with 1000 NIT Display (1280-3)						
172185 ††	3154BAAAAA	1280 Wall Mount	100-240 VAC	1000 NIT	Single Scale Card	Consult
172187 ††	3154CAAAAA	1280 Wall Mount	100-240 VAC	1000 NIT	Dual Scale Card	Consult
Touch-only 7 inch with 500 NIT Display (1280-5)						
186618 *	41-3BAAAAA	1280 Touch-only 7 in	100-240 VAC	500 NIT	Single Scale Card	Consult
Touch-only 12 inch with 1500 NIT Display (1280-6)						
186465 *	51-5BAAAAA	1280 Touch-only 12 in	100-240 VAC	1500 NIT	Single Scale Card	Consult

** Power cable not included*

†† CEE 7/7 plug (Euro)

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Single A/D Scale



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

Part #	Description	Price
164085	Single scale A/D	Consult
163407	Board only	Consult
166957	A/D sealing kit	Consult

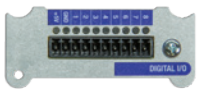
Dual A/D Scale



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

Part #	Description	Price
164683	Dual scale A/D	Consult
160760	Board only	Consult
166957	A/D sealing kit	Consult

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	Consult
160761	Board only	Consult

For 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	Consult
162930	Board only	Consult

Single Analog Out



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

Part #	Description	Price
165366	Single analog out	Consult
164704	Board only	Consult

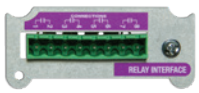
Dual Analog Out



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

Part #	Description	Price
164686	Dual analog out	Consult
162931	Board only	Consult

Relay Card



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

Part #	Description	Price
164689	Relay card	Consult
164974	Board only	Consult

Analog Input / Thermocouple



Analog Input Signal:
±10VDC, ±100mV, 0-20mA
Thermocouple Types:
E, J, K, N, T

Part #	Description	Price
164687	Dual analog input	Consult
162932	Board only	Consult

Data Exchange with PLC/DCS Systems

EtherNet/IP



Part #	Description	Price
165792	EtherNet/IP	Consult
152357	EtherNet/IP Module only	Consult
164756	Host board only	Consult

Profinet



Part #	Description	Price
165794	Profinet	Consult
152355	Profinet module only	Consult
164756	Host board only	Consult

Modbus TCP



Part #	Description	Price
165796	Modbus TCP	Consult
152359	Modbus TCP module only	Consult
164756	Host board only	Consult

Profibus DP



Part #	Description	Price
165795	Profibus DP	Consult
152358	Profibus module only	Consult
164756	Host board only	Consult

EtherCAT



Part #	Description	Price
179533	EtherCAT	Consult
163295	Module, EtherCAT	Consult
164756	Host board only	Consult

PowerLink



Part #	Description	Price
182319	PowerLink	Consult
183004	PowerLink module only	Consult
164756	Host board only	Consult

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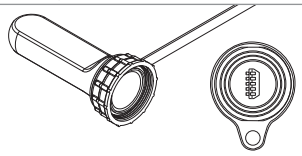
Grayhill Relays and Racks

Part #	Description	Price
52332	Two-channel input relay, 2.5-28 VDC	Consult
52318	Two-channel input relay, 120 VAC	Consult
52319	Two-channel input relay, 240 VAC	Consult
52331	Two-channel input relay, 10-32 VDC	Consult
52316	Two-channel output relay, 120-140 VAC at 2 amp	Consult
52317	Two-channel output relay, 240-280 VAC at 7 amp	Consult
71376	Two-channel output relay, 3-60 VDC at 1 amp	Consult
71377	Two-channel output relay, 0-200 VDC/VAC at 1,5A/10W (dry contact)	Consult
84698	Two-channel output relay, inductive load, 120-140 VAC at 2A	Consult
84699	Two-channel output relay, inductive load, 240-280 VAC at 2A	Consult
52312	Eight-channel relay rack, panel mount and wall mount, requires 50-Pin flat or round ribbon cable - 4 slots	Consult
52314	16-channel relay rack, panel mount and wall mount, requires 50-Pin flat or round ribbon cable - 8 slots	Consult
52315	24-channel relay rack, panel mount and wall mount, requires 50-Pin flat or round ribbon cable - 12 slots	Consult
170008	Cable, 60-Pin flat ribbon w 50-Pin adapter, 24 in length	Consult
170009	Cable, 60-Pin round w 50-Pin adapter, 60 in length	Consult
170736	Cable, 60-Pin round w/ cord grip and 50-Pin adapter	Consult

Options

Part #	Description	Price
Manuals and Software		
77925	Revolution scale software	Consult
166046	Manual, Operation	Consult
167659	Manual, Technical	Consult
167660	CD, 1280 Documents	Consult
164939	8 GB Micro SD card with SD and USB adapter	Consult
173046	USB flash drive, 1 GB	Consult



Flash Drive Cover *Cover*

Unsealed Connectors

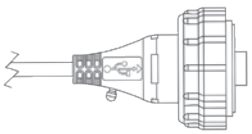


Type B

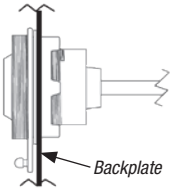


Type A

Sealed Connector



Sealed Receptacle



Options

Part #	Description	Price
Primary Component Parts		
163400	7 in 500 NIT display	Consult
163399	7 in 1000 NIT display	Consult
182992	12 in 1500 NIT display	Consult
160757 *	CPU board assembly	Consult
160758	Back Plane board assembly	Consult
162693	AC power supply board	Consult
162694	DC power supply board	Consult
164121	Overlay, keypad, for panel & wall mount	Consult
164120	Overlay, touchscreen, for panel & wall mount	Consult
161731	Overlay, keypad, for universal	Consult
161730	Overlay, touchscreen, for universal	Consult
178498	Overlay, touchscreen, for 7 in touch-only panel mount	Consult
176126	Overlay, touchscreen, for 12 in touch-only panel mount	Consult

The fan plate (PN 169350) will need to be updated if replacing CPU version A, B or C

Options/Accessories

Part #	Description	Connector Type				Price
USB Cables (Note: Cables have a plug)		Sealed		Unsealed		
		A	B	A	B	
152434	Unsealed connectors USB-A to USB micro A, 2 m cable			X		Consult
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
USB Receptacles (Note: Receptacles have a socket)						
176790	Sealed receptacle USB-A for panel mount, 0,75 m cable	X				Consult
126476	Sealed receptacle USB-A for wall mount, 0,5 m cable	X		X		Consult
172735	Sealed receptacle USB-A for universal, 0,25 m cable	X		X		Consult
124694	Cover for sealed receptacles					Consult
124689	Cover for flash driver mounts on sealed receptacle					Consult
Ethernet Cables		**Sealed**		**Unsealed**		
72697	Unsealed Ethernet, RJ45 to RJ45, 2 m cable			X		Consult
124706	Sealed to sealed Ethernet 3 m cable	X				Consult
124707	Sealed to unsealed Ethernet 3 m cable	X		X		Consult
Ethernet Receptacles		**Sealed**		**Unsealed**		
176789	Sealed receptacle Ethernet RJ-45, 0,75 m cable	X				Consult
172734	Sealed receptacle Ethernet RJ-45, 0,5 m cable	X				Consult
126353	Sealed receptacle Ethernet RJ-45, 0,25 m cable	X				Consult

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