

1280 Enterprise™ Series

Programmable Color Touchscreen Weight Indicator and Controller



Specifications

Power:

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

Power Consumption:

60 W

Excitation Voltage:

10 VDC (± 5 VDC)
16 \times 350 ohm or 32 \times 700 ohm load cells per A/D card

Analog Signal Input Range:

-60 mV to 60 mV

Analog Signal Sensitivity:

0.3 μ V/graduation minimum at 7.5 Hz to 120 Hz
1.0 μ V/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

$\pm 0.01\%$ 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 \times 480 pixel, 500 or 1,000 NIT
Twelve-inch, 1280 \times 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:

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 10,000 d
Measurement Canada AM-5980C,
Class III/III HD 10,000 d
OIML R76/2006-A-NL1-19.23 Class III/III 10,000 d
OIML R61-1/2017 TC8596
cULus Listed (Universal, Wall Mount)
cULus Recognized (Panel Mount)
CE Marked

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 and 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

INDICATORS /
CONTROLLERS

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7-inch model with keypad



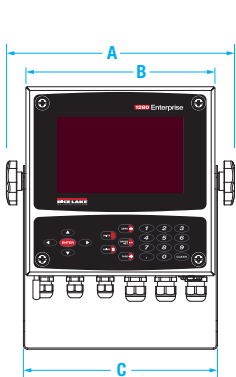
7-inch touch-only model



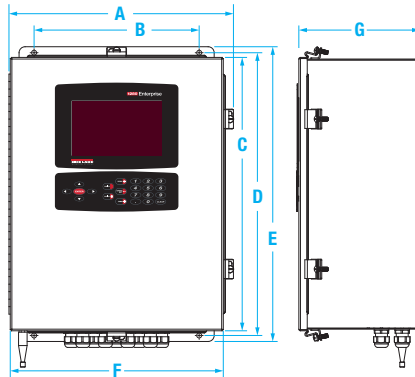
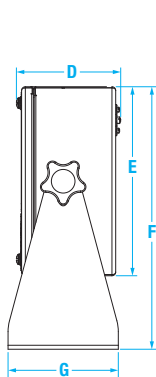
12-inch touch-only model

INDICATORS / CONTROLLERS

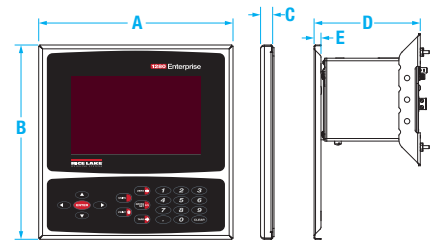
Numeric Keypad Models:



1280-2



1280-3



1280-4

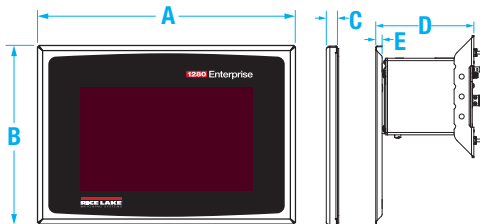
Dimensions

| 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) | | |

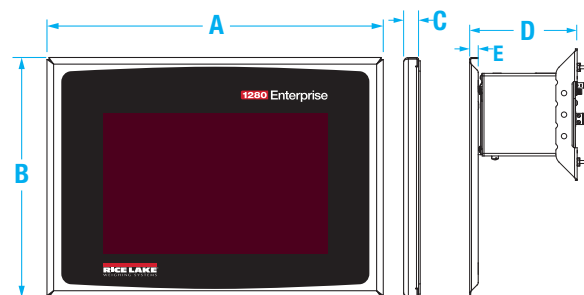
| Wall Mount (1280-3) | | | |
|---------------------|-------------------|---|-------------------|
| A | 14.92 in (379 mm) | E | 19.64 in (499 mm) |
| B | 11.00 in (279 mm) | F | 14.20 in (361 mm) |
| C | 18.22 in (463 mm) | G | 8.08 in (205 mm) |
| D | 18.84 in (479 mm) | | |

| 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) | | |

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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 | Consult |
| 171441 †† | 1280 Universal | 100 to 240 VAC | 500 NIT | Single Scale Card | Consult |
| 171662 † | 1280 Universal | 115 VAC | 500 NIT | Dual Scale Card | Consult |
| 172188 †† | 1280 Universal | 100 to 240 VAC | 500 NIT | Dual Scale Card | Consult |
| Panel Mount Enclosure with 500 NIT Display (1280-4) | | | | | |
| 171663 | 1280 Panel Mount | 100 to 240 VAC | 500 NIT | Single Scale Card | Consult |
| 172186 | 1280 Panel Mount | 100 to 240 VAC | 500 NIT | Dual Scale Card | Consult |
| Wall Mount Enclosure with 500 NIT Display (1280-3) | | | | | |
| 173673 † | 1280 Wall Mount | 115 VAC | 500 NIT | Single Scale Card | Consult |
| 174143 †† | 1280 Wall Mount | 100 to 240 VAC | 500 NIT | Single Scale Card | Consult |
| 174144 † | 1280 Wall Mount | 115 VAC | 500 NIT | Dual Scale Card | Consult |
| 174145 †† | 1280 Wall Mount | 100 to 240 VAC | 500 NIT | Dual Scale Card | Consult |
| Wall Mount Enclosure with 1000 NIT Display (1280-3) | | | | | |
| 172184 † | 1280 Wall Mount | 115 VAC | 1,000 NIT | Single Scale Card | Consult |
| 172185 †† | 1280 Wall Mount | 100 to 240 VAC | 1,000 NIT | Single Scale Card | Consult |
| 206563 † | 1280 Wall Mount | 115 VAC | 1,000 NIT | Dual Scale Card | Consult |
| 172187 †† | 1280 Wall Mount | 100 to 240 VAC | 1,000 NIT | Dual Scale Card | Consult |
| Touch-only 7 inch with 500 NIT Display (1280-5) | | | | | |
| 186618 | 1280 Touch-only 7 in | 100 to 240 VAC | 500 NIT | Single Scale Card | Consult |
| Touch-only 12 inch with 1500 NIT Display (1280-6) | | | | | |
| 186465 | 1280 Touch-only 12 in | 100 to 240 VAC | 1,500 NIT | Single Scale Card | Consult |



† US plug (NA) - Type B



†† Euro Plug - Type E



(Brazil) - Type N



††† BS1363 (UK) - Type G



†††† AS 3112 (Australian) - Type I

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"> 1 Universal (1280-2) 2 Panel (1280-4) 3 Wall (1280-3) 4 Touch-only Panel 7 in (1280-5) 5 Touch-only Panel 12 in (1280-6) | <ol style="list-style-type: none"> 1 AC 2 DC | <ol style="list-style-type: none"> 1 500NIT 7 in Universal 2 1000NIT 7 in Universal 3 500NIT 7 in Panel/Wall 4 1000NIT 7 in Panel/Wall 5 1500NIT 12 in Panel | <ol style="list-style-type: none"> 1 US Plug Universal 2 Brazil Plug Universal 3 Euro Plug Universal 4 US Plug Wall 5 Euro Plug Wall 6 Brazil Plug Wall 7 UK Plug Universal 8 AU/NZ Plug Universal 9 UK Plug Wall 10 AU/NZ Plug Wall | <ol style="list-style-type: none"> A Blank <small>If no option, controller will need 6 blanks</small> B Single A/D Scale C Dual A/D Scale D 24 Channel Digital I/O E Dual Serial Channel F 4-dry Contact Relay G Single Analog Out H Dual Analog Out I Analog Input J EtherNet/IP K DeviceNet L ProfiNet M Modbus TCP N Profibus DP O EtherCat P PowerLink |

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INDICATORS / CONTROLLERS

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 | Consult |
| 166957 | A/D sealing kit | Consult |

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 | 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 |
| 170008 | DIO adapter, includes 60 pin flat ribbon cable, 24 in | Consult |
| 170009 | DIO adapter, includes 60 pin round cable, 60 in | Consult |
| 170736 | DIO adapter, includes 60 pin cable and cord grip, 60 in | Consult |

* 24 I/O ribbon cable required.

Dual Serial Channel



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

| Part # | Description | Price |
|--------|---------------------|---------|
| 164685 | Dual serial channel | Consult |

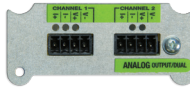
Single Analog Out



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

| Part # | Description | Price |
|--------|-------------------|---------|
| 165366 | Single analog out | Consult |

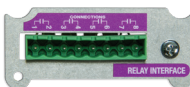
Dual Analog Out



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

| Part # | Description | Price |
|--------|-----------------|---------|
| 164686 | Dual analog out | Consult |

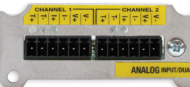
Relay Card



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

| Part # | Description | Price |
|--------|-------------|---------|
| 164689 | Relay card | Consult |

Analog Input



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

| Part # | Description | Price |
|--------|-------------------|---------|
| 164687 | Dual analog input | Consult |

Data Exchange with PLC/DCS Systems

EtherNet/IP



| Part # | Description | Price |
|--------|--------------------------|---------|
| 165792 | EtherNet/IP, single port | Consult |
| 208129 | EtherNet/IP, dual port | Consult |

DeviceNet



| Part # | Description | Price |
|--------|-------------|---------|
| 165793 | DeviceNet | Consult |

Profinet



| Part # | Description | Price |
|--------|-------------|---------|
| 165794 | Profinet | Consult |

Modbus TCP



| Part # | Description | Price |
|--------|-------------|---------|
| 165796 | Modbus TCP | Consult |

Profibus DP



| Part # | Description | Price |
|--------|-------------|---------|
| 165795 | Profibus DP | Consult |

EtherCAT



| Part # | Description | Price |
|--------|-------------|---------|
| 179533 | EtherCAT | Consult |

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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 | Consult |
| 72809 | Interchange database software | Consult |
| 164939 | 8 GB Micro SD card with SD and USB adapter | Consult |
| 195607 | USB flash drive, 1 GB | Consult |
| Extended Display Cable Length for Touch Only Models | | |
| 182600 | Display cable for 7 in (500 NIT) touch-only, 5 ft length | Consult |
| 182601 | Display cable for 7 in (500 NIT) touch-only, 10 ft length | Consult |
| 187489 | Display cable for 7 in (1,000 NIT) touch-only, 10 ft length | Consult |
| 180027 | Display cable for 12 in touch-only, 5 ft length | Consult |
| 180028 | Display cable for 12 in touch-only, 10 ft length | Consult |
| Extended Touch Cable Length for Touch Only Models | | |
| 180744 | Touch cable for touch-only, 5 ft length | Consult |
| 180745 | Touch cable for touch-only, 10 ft length | Consult |

Primary Component Parts

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

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 | Consult |
| 124700 | A SEALED B SEALED | 3 m | Consult |
| 126477 | A SEALED A UNSEALED | 3 m | Consult |
| 124701 | A SEALED B UNSEALED | 3 m | Consult |
| 124702 | B SEALED A UNSEALED | 3 m | Consult |
| 152434 | A UNSEALED Micro A UNSEALED | 2 m | Consult |
| USB Receptacles (Receptacle is a socket) | | | |
| 176790 Panel Mount | A SEALED A UNSEALED | 0.75 m | Consult |
| 126476 Wall Mount | A SEALED A UNSEALED | 0.5 m | Consult |
| 172735 Universal | A SEALED A UNSEALED | 0.25 m | Consult |
| Ethernet Cables | | | |
| 72697 | RJ-45 UNSEALED RJ-45 UNSEALED | 2 m | Consult |
| 124706 | RJ-45 SEALED RJ-45 SEALED | 3 m | Consult |
| 124707 | RJ-45 SEALED RJ-45 UNSEALED | 2 m | Consult |
| Ethernet Receptacles (Receptacle is a socket) | | | |
| 176789 | RJ-45 SEALED | 0.75 m | Consult |
| 172734 | RJ-45 SEALED | 0.5 m | Consult |
| 126353 | RJ-45 SEALED | 0.25 m | Consult |
| Cable and Receptacle Accessories | | | |
| 124694 | Cover for sealed receptacles | | Consult |
| 124689 | Cover for flash driver mounts on sealed receptacle | | Consult |

INDICATORS / CONTROLLERS

Unsealed Connectors

