

DFI 880/DFI 880 PLUS PERFORMANCE™ SERIES DIGITAL WEIGHT INDICATOR/CONTROLLER

Designed with the user process in mind and built for communication, the 880 Performance Series weight indicators/controllers are packed with power, yet simple in design. Intuitive multi-function menu keys allow navigation in any application and the NEMA Type 4X/IP69K-rated gasket effectively keeps internal components out of harm's way. Twenty time- and weight-based setpoints provide ultra responsiveness to handle any process control requirement. The innovative 880 and 880 Plus also accommodate a wide range of connectivity—from USB and RS-232/RS-485 to Ethernet TCP/IP. With two different enclosure types to choose from, the Performance Series exceeds your expectations wherever you need it.

880 Performance

The sleek design of the 880 not only looks great, it also fits great into existing and new panels alike. At just under five inches deep, the efficiently designed enclosure fits easily into compact spaces with DIN-rail clips to make mounting quick and effortless. The 880's modular design enables the display to be remotely mounted, especially useful for instances when it is inconvenient to mount the controller on a conventional panel.

880 Performance Plus

Equipped with a universal mount, the 880 Plus delivers all of the powerful features of the 880 when a panel mount isn't necessary. The numeric keypad simplifies the user experience, making operations more convenient and flexible.

SPECIFICATIONS

POWER:	Input voltages: 100-240 VAC; 9-36 VDC Input frequency: 47-63 Hz
POWER CONSUMPTION:	AC: 15 watts; DC: 20 watts
EXCITATION VOLTAGE:	10 VDC 8 x 350 Ω (16 x 700 Ω) load cells
ANALOG SIGNAL INPUT RANGE:	-45 mV to 45 mV
ANALOG SIGNAL SENSITIVITY:	0.3 μV/graduation minimum at 7.5 Hz; 1.0 μV/graduation typical at 120 Hz; 4.0 μV/graduation typical at 960 Hz; A/D
SAMPLE RATE:	7.5 to 960 Hz, software selectable
RESOLUTION:	Internal: 8 million counts 23 bit weight display: 100,000
SYSTEM LINEARITY:	±0.01% full scale
DIGITAL I/O:	4 I/O onboard primary keys, pseudo functions, batching functions
CIRCUIT PROTECTION:	18 KV, 10 V/meter
COMMUNICATION PORTS:	RS-232 full duplex or RS-485 half duplex; USB type te required); USB micro A/B connector 2.0; Ethernet TCP/IP
DISPLAY:	LED, 0.56 in (14 mm), 6-digit, 14-segment with decimal or comma

(continued next page)

- LED DISPLAY, 0.56 IN (14 MM), 6-DIGIT, 14-SEGMENT
- RS-232 OR RS-485 SERIAL PORT
- USB DEVICE PORT & HOST PORT
- ETHERNET TCP/IP POLLED OR CONTINUOUS
- AC OR DC MODELS
- BUILT-IN DIN-RAIL CLIPS ON CONTROLLER BOX (PANEL MOUNT)
- DISPLAY AND CONTROLLER CAN BE SEPARATED UP TO 250 FT (PANEL MOUNT)
- HARDWARE SLOT FOR ONE OPTION CARD
- OPERATOR FUNCTIONS THROUGH MENU KEY FOR AUDIT TRAIL, PRESET TARE, ACCUMULATOR, TIME & DATE
- AUDIT TRAIL TRACKING & PASSWORD PROTECTION
- 20 SETPOINTS WITH LATCHED BATCH ENGINE OR UNLATCHED OUTPUTS
- 4 ONBOARD DIGITAL I/O CHANNELS
- PROGRAMMABLE TICKET FORMATS UP TO 1,000 CHARACTERS FOR HEADER TEXT, GROSS, NET, ACCUMULATOR & SET POINTS
- LOCAL/REMOTE OPERATION
- MULTI-RANGE OR MULTI-INTERVAL WEIGHING
- FILTER SETTINGS FOR NOISE

DFI 880 PERFORMANCE SERIES



INTERFACE OPTIONS:

Analog Output, EtherNet/IP, ProfiNet, Modbus/TCP, DeviceNet, Profibus DP, Relay Board

(full list see next page)

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SPECIFICATIONS

STATUS ANNUNCIATORS:	Gross, net, center of zero, standstill, lb, kg, tare, preset tare, range 1/2/3
KEYBOARD:	Flat membrane panel, tactile feel
TEMPERATURE:	Legal: 14° F to 104° F (-10° C to 40° C) Industrial: 14° F to 122° F (-10° C to 50° C)
DIMENSIONS (W x H x D):	Panel: 6 x 4 x 4.95 in (152 x 102 x 126 mm) Universal: 9.87 x 9.38 x 4.33
WEIGHT:	Panel: 2.5 lb (1.2 kg); Universal: 12 lb (5.4 kg)
RATING:	Display bezel NEMA Type 4X, IP69 K
MATERIAL:	Panel display: stainless steel Universal: stainless steel Controller: aluminum
WARRANTY:	Two-year limited warranty
APPROVALS:	NTEP CC 13-080 Accuracy Class III/III L, 10,000d Measurement Canada AM-5931C Accuracy Class III/III HD, 10,000d OIML Universal, pending, TC 8463 T 8464, Class III, 10,000d CE Mark
ACCESSORIES:	Metrological hardware sealing kit Adapter plate for converting 310 A and 520 panel mounts

OPTIONS

ANALOG OUTPUT:	16-bit resolution, voltage output 0-10 VDC, current output 0-20 mA, 4-20 mA
RELAY BOARD:	4 dry contract relays; DC Max: 30 VDC at 3 amps per contact AC max: 250 VAC at 3 amps per contact
ETHERNET/IP INTERFACE:	According to EN 50325-2
PROFINET INTERFACE:	According to IEC 61784 (CPF-3/3)
MODBUS/TCP INTERFACE:	Up to 8 bytes of I/O data, 100 Mbps full duplex Ethernet
DEVICENET INTERFACE:	According to EN 50325-2
PROFIBUS DP INTERFACE:	According to EN 50170
ETHERCAT:	According to IEEE 802.3

