

PROFIBUS® DP Interface



PART #	DESCRIPTION
49974	PROFIBUS DP Interface, 115 VAC (external)
49975	PROFIBUS DP Interface, 230 VAC (external)
49976*	PROFIBUS DP Interface kit (internal)
* For use with IQ plus 510 & 710 indicators	

Providing a fast, simple and affordable network communication solution, our IQ plus® 310A, 510, 710, 800 and 810 indicators interface with Profibus DP, a powerful and open field bus that delivers fast response times. Through our DP interface, you have instant access to over 3,000,000 Profibus devices, with approximately 2,000 unique products.

Profibus is an effective multi-vendor interface device that communicates information between Siemens automation systems and distributed field devices. Utilizing a minimal amount of hardware, Profibus DP creates a high-speed serial link that transmits information such as input and output data, parameters, diagnostic data, and programs to other devices.

The IQ plus 310A, 800 and 810 indicators function with a stand alone, external version, while the IQ plus 510 and 710 indicators work with an internally mounted version of Profibus DP. Indicators already in the field can be easily retrofitted with the interface on-site without causing costly delays to your customers' operations. Older versions can be retrofitted at the factory with a small hardware change.

Applications

- Automated process weighing
- Material flow control
- Multi-scale monitoring and manipulation
- IQ plus® 310A, 510, 710, 800, and 810 compatible

Standard Features

- DP intelligent slave
- Open configuration permits plug & play
- Standard GSD file on disk
- 128 selectable addresses
- Auto sensing baud rate up to 12 megabaud
- 4-word, 8-bit format
- Generates up to 32-bit word
- Complies with EN50170 standard
- Fast data exchange, less than 10 milli-seconds
- Supports sync & freeze mode
- RS-232 or 20 mA interface
- On board LED diagnostics

Additional features with IQ plus 310A & 510:

- 5-button operation
- Panel mountable
- High-speed update rate

Additional features with IQ plus 710:

- Local batch control
- 8-digital outputs, 8-digital inputs
- Display messaging

Additional features with IQ plus 800 & 810:

- Drives up to 4 scales
- 16 digital outputs, 3 digital inputs
- Enclosure types: panel mount, stainless steel, FRP, and XPCD

Options/Accessories

- 50955 Operating manual, external version (800/810/310A)
- 52579 Operating manual, internal version (510/710)

NOTE: Because this product interfaces with programs written by non-RLWS parties, please consult factory for latest technical updates before quoting.

ELECTRICAL:

Voltage: 115 or 230 VAC (-10%/+15%)

Frequency: 60 Hz

Fusing: Two .75 A @ 125V microfuses for 115 VAC operation,
two .50 A @ 250V microfuses for 230 VAC operation

COMMUNICATIONS:

RS-485 network: 2-wire cable, network at 56, 38,
19, or 9.6 Kbps

SERIAL COMMUNICATIONS:

Interface: RS-232, 20mA available

Data Rate: 9600 to 19.2 Kbps

ASCII Encoding: 1 start bit, 8 data bits, 1 stop bit

OPERATING TEMPERATURE:

14°F to 104°F (-10°C to 40°C)

RATING/MATERIAL:

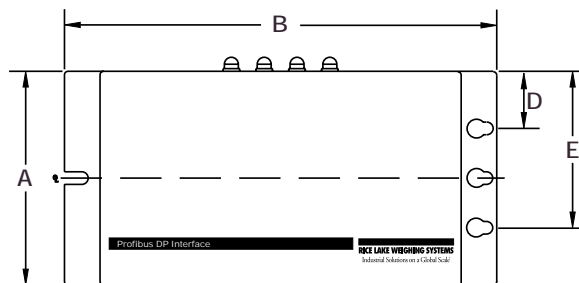
NEMA 4X stainless steel

WEIGHT:

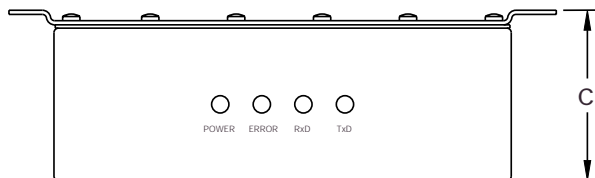
6 lb (2.7 kg)

WARRANTY:

One year limited warranty



(Front View)



(Top View)

DIMENSIONS

A = 4.9" (124mm)

B = 9.9" (251mm)

C = 3.1" (79.5mm)

D = 1.2" (30.2mm)

E = 3.7" (93.9mm)