

# Model 300 Fieldbus Gateway for Model 400 & 500 Digital Weight Indicators



- Provides an interface between the Model 400 and 500 digital weight indicators and fieldbus networks.
- Supports Profibus-DP, DeviceNet™, Ethernet, CANopen and ModBus™ Plus
- One Gateway can support multiple indicators providing a very cost effective solution for multi-station weighing systems
- Can be programmed to map only selected Model 400 or 500 parameters so reducing unnecessary bus traffic and minimising cycle time



## NOVA WEIGH

### Fieldbus protocols

Many system designers are taking advantage of fieldbus architectures. These offer the user a number of major benefits including ...

- Reduced project costs – especially in the areas of cabling and installation
- Interoperability of different vendors equipment on a shared network
- High speed data transfer
- Avoids the need for custom designed 'drivers' for individual instrument types

Since there are a number of fieldbus standards, Nova Weigh provides a flexible interface between the Models 400 and 500 weight indicators that supports all the most popular protocols.

### Model 300 gateway

The gateway connects a number of instruments to a fieldbus network. This architecture makes for a very cost-effective solution where multiple weigh stations are to be installed.

The instruments can be Model 400 or 500 Digital Weight Indicators or a mixture of the two types. The indicators are connected to the gateway using the ModBus™ RTU protocol.

### Construction

The Model 300 gateway is a DIN-rail mounting device. On the front of the device are six LEDs. These signal the status of the unit (by colour and mode) and enable trouble shooting of the network to be performed without specialised tools.

Also on the front face is a connector for the selected fieldbus. The type of connector will vary with the fieldbus implemented. On the bottom of the device is a nine-pin sub-miniature D-connector for connection to the weight indicators' sub-network.

A small hatch at the side of the unit provides access to configuration switches. The type and function of the switches varies with the fieldbus protocol in use.

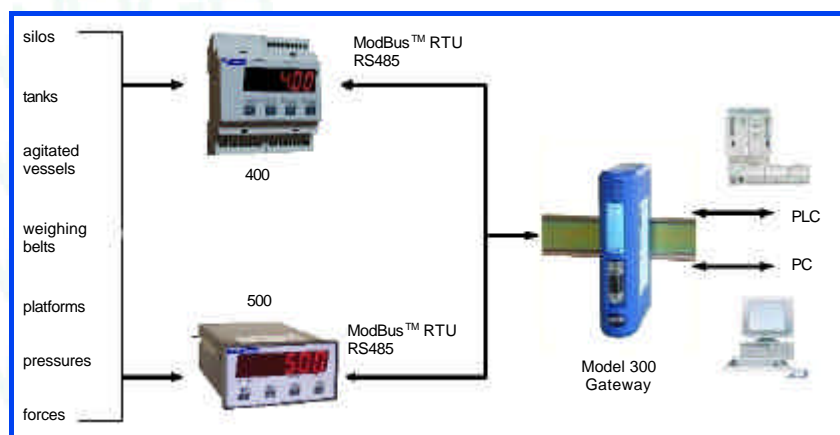
### Functionality

Any of the 400 or 500 set-up parameters can be mapped to the Profibus -DP network. These can include net & gross weight, setpoint status etc.

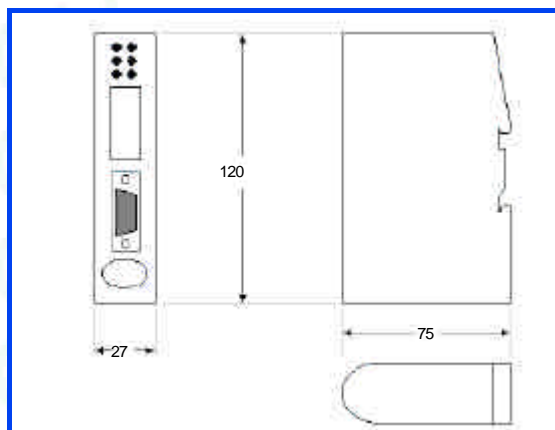
## Technical Specification

Fieldbus network summary		Power requirements and environmental	
Fieldbus options	Profibus-DP, DeviceNet™, Ethernet, CANopen, Modbus™ Plus	Power	24 Vdc ±10%, maximum power consumption 280 mA, typically 100 mA
Fieldbus network connections	Type of connector installed reflects normal practice for the fieldbus selected	Operating temperature	+ 5°C to + 55°C
Network status	Six multi-colour LEDs on the front of the unit provide diagnostic and set-up data. Detail varies with fieldbus type	Humidity	- 5 to 95% non-condensing
Instrument sub-network summary		EMC	CE Marked according to the EN 50081-2:1993 and EN61000-6-2:1999
Type	Nine-pin sub-miniature D connector	Mechanical	
Interface to weight indicators	ModBus™ multi-drop	Construction	Plastic housing with snap-on connector to DIN rail
		Dimensions	120 x 75 x 27 mm (LxWxH)

## Application



## Dimensions



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BS EN ISO 9001:2000 Cert No: FM 11445

Nova Weigh's policy of constant product development dictates that we may alter specifications and or the appearance of our product range without notice.