



**WATSON
MARLOW**
Pumps

WATSON-MARLOW PUMPS GROUP

Watson-Marlow ... Value for life

Simple Installation... Smart Control.

The worlds first
PROFIBUS peristaltic
cased pump
solution

Simple Installation

- No point-to-point wiring
- One GSD file for all pumps
- No extra equipment required
- A simple 9-pin PROFIBUS connector

Smart Control

- Intelligence
- Real time two way
communication
- Reliable and quick response
- Predictive maintenance

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Simple Installation

No point to point wiring

Using PROFIBUS means there is no longer a need for point to point wiring. For example, a set of four 520DuN pumps one meter apart, using 4-20mA speed control with remote stop/start and a run status connection on each connected to a PLC 15 meters away would require around 360 meters of cable. Using PROFIBUS you only need one cable to the first pump then one cable from pump to pump making a total of 18 meters, so reducing materials and engineering costs.

One GSD file for all pumps

The 520, 620 and 720 PROFIBUS pumps run from the same GSD file (See glossary in "An Introduction to PROFIBUS"). This means true process scaling, unplug and remove one pump and replace with another.

No extra equipment required

With direct connection into PROFIBUS networks there is no need for expensive equipment such as gateways or I/O converters saving the customer money and providing more information than ever before.

A simple 9 pin PROFIBUS connector

Connection to the network is simple and only requires a 9 pin PROFIBUS connector with two wires within the PROFIBUS cable feed into the connector.

Smart Control

Intelligence

PROFIBUS offers real intelligence with full control of direction, speed, start/stop and full status information including tachometer count and run hours. The pumps also provide a full range of diagnostic messages. In the unlikely event of a failure the pump will automatically stop and inform the master that there is a problem and if requested by the master what the problem is, so reducing downtime and engineering costs. Typical diagnostics are guard indication (guard open), leak detection (if fitted) and under voltage.

Real time two way communication

Our PROFIBUS pumps run at the full PROFIBUS bus speed range from 9600Kb/sec up to 12Mb/sec making them compatible with all PROFIBUS DP networks offering fast real time communication.

Reliable and quick response

The PROFIBUS transmission method makes PROFIBUS control reliable even over distance and combined with its high speed offers accurate control over the customer's process reducing process waste and improving process efficiency.

Predictive maintenance

Status information such as run hours can be monitored by the master to read how long the tube or element has been in use and therefore the master can trigger engineers to replace the tube before it fails. No mess and minimal downtime, again improving process efficiency.

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