

# 520Bp/BpN, 620Bp/BpN, 720BpN PROFIBUS cased pumps

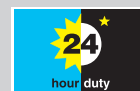
**PROFIBUS**  
Watson-Marlow Bredel

## FEATURES AND BENEFITS

- All the benefits of a Watson-Marlow cased pump combined with the worlds leading Fieldbus system
- Easy installation, no complicated wiring
- Reduced hardware and engineering costs
- Intelligent devices capable of diagnostic feedback
- Real time communication makes your process secure and flexible
- Bus speed 9.6kbits/s up to 12000kbits/s
- 0.18ml/min up to 3500ml/min with 520 pump fitted with 520RE pumphead
- 0.004 litre/min up to 18 litre/min with 620 pump fitted with 620RE pumphead
- 0.22 litre/hr up to 2000 litre/hr with 720 pump fitted with 720RE pumphead
- Available in IP31 and IP66 options



*Watson-Marlow Bredel... Value for life*



## TECHNICAL DATA

Pump	520Bp	520BpN	620Bp	620BpN	720BpN
<b>Manual control</b>					
Full calibration with choice of flow units	•	•	•	•	•
Choice of flow rate or speed display	•	•	•	•	•
MemoDose function	•	•	•	•	•
Auto restart facility	•	•	•	•	•
Guard switch detection	•	•	•	•	•
Leak detection	•	•	•	•	•
<b>Fieldbus technology</b>					
Profibus DP V0	•	•	•	•	•
Communication speeds from 9.6kbit/s up to 12000kbit/s	•	•	•	•	•
Auto detect bus speed	•	•	•	•	•
<b>Parametisation</b>					
Min speed	•	•	•	•	•
Max speed	•	•	•	•	•
Pump model	•	•	•	•	•
Pump head	•	•	•	•	•
Tubing	•	•	•	•	•
Pump address	•	•	•	•	•
<b>Diagnostic functions</b>					
General fault flag	•	•	•	•	•
Guard switch detection	•	•	•	•	•
Leak detection	•	•	•	•	•
<b>Extended diagnostics</b>					
Overcurrent	•	•	•	•	•
Over temperature	•	•	•	•	•
Pump stalled	•	•	•	•	•
Tacho fault	•	•	•	•	•
RAM write error	•	•	•	•	•
Wrong speed	•	•	•	•	•
RAM Corruption	•	•	•	•	•
Over Voltage	•	•	•	•	•
Under Voltage	•	•	•	•	•
Setpoint out of range (min speed)	•	•	•	•	•
Setpoint out of range (max speed)	•	•	•	•	•

## TECHNICAL SPECIFICATION

Pump drives	520Bp	520BpN	620Bp	620BpN	720BpN
Ingress rating	IP31 / NEMA 2	IP66 / NEMA 4X	IP31 / NEMA 2	IP66 / NEMA 4X	IP66 / NEMA 4X
Temperature	5C to 40C (40F to 104F)	5C to 40C (40F to 104F)	5C to 40C (40F to 104F)	5C to 40C (40F to 104F)	5C to 40C (40F to 104F)
Pump weight	9.82kg (21lb 10oz)	10.7kg (23lb 9oz)	19.6kg (43lb 3oz)	20.5kg (45lb 3oz)	25kg (55lb)
Control ratio	2200:1	2200:1	2650:1	2650:1	3600:1
Torque rating	2.2Nm, continuous duty	2.2Nm, continuous duty	6Nm, continuous duty	6Nm, continuous duty	2.5Nm, shaft 4X at pumphead
Profibus connection	9 - PIN D	9 - PIN D	9 - PIN D	9 - PIN D	9 - PIN D
RoHS compliant	yes	yes	yes	yes	yes
Noise	< 70dB(A) at 1m	< 70dB(A) at 1m	< 70dB(A) at 1m	< 70dB(A) at 1m	< 70dB(A) at 1m
Standards	CE, CETLUS	CE, CETLUS	CE, CETLUS	CE, CETLUS	CE, CETLUS
Power supply	115/230V 1ph, 50/60Hz	115/230V 1ph, 50/60Hz	115/230V 1ph, 50/60Hz	115/230V 1ph, 50/60Hz	115/230V 1ph, 50/60Hz

## ORDER INFORMATION

Order codes	
Description	Partcode
<b>520 IP31 Pumps</b>	
520Bp/R PROFIBUS pump	050.7161.100*
520Bp/R2 PROFIBUS pump	050.7161.2L0*
520Bp/REL PROFIBUS pump	050.7161.EL0*
520Bp/REM PROFIBUS pump	050.7161.EM0*
520Bp/REH PROFIBUS pump	050.7161.EH0*
520Bp/L PROFIBUS pump	050.7161.5L0*
<b>520 IP66 Pumps</b>	
520BpN/R PROFIBUS pump	050.716N.100**
520BpN/R2 PROFIBUS pump	050.716N.2L0**
520BpN/REL PROFIBUS pump	050.716N.EL0**
520BpN/REM PROFIBUS pump	050.716N.EM0**
520BpN/REH PROFIBUS pump	050.716N.EH0**
520BpN/L PROFIBUS pump	050.716N.5L0**
<b>620 IP31 Pumps</b>	
620Bp/R PROFIBUS pump	060.4161.020*
620Bp/RE PROFIBUS pump	060.4161.E20*
620Bp/RE4 PROFIBUS pump	060.4161.E40*
620Bp/L PROFIBUS pump	060.4161.5L0*
<b>620 IP66 Pumps</b>	
620BpN /R PROFIBUS pump	060.416N.020**
620BpN/RE PROFIBUS pump	060.416N.E20**
620BpN/RE4 PROFIBUS pump	060.416N.E40**
620BpN/L PROFIBUS pump	060.416N.5L0**
<b>720 IP66 Pumps</b>	
720BpN/R PROFIBUS pump	070.416N.000**
720BpN/RE PROFIBUS pump	070.416N.E00**
720BpN/R/RX PROFIBUS pump	070.416N.X00**
720BpN/RE/REX PROFIBUS pump	070.416N.EX0**

\* Supplied as 2.4 metre mains lead without plug. To specify American, European, United Kingdom, Australian, Argentinian or Swiss 2.8m mains lead please specify A, E, U, K, R or C respectively. Replace the last zero with the mains lead code. For example - 060.7131.10A is a 620S/R pump with American mains lead.

\*\* Replace 0 (plug less) with A for 2.8m American mains lead

All flow rates shown were obtained pumping water at 20C (68F) with zero suction and delivery heads. Watson-Marlow, Bioprene and Marprene are trademarks of Watson-Marlow Limited. Disclaimer: The information contained in this document is believed to be correct but Watson-Marlow Limited accepts no liability for any errors it contains, and reserves the right to alter specifications without notice. LoadSure is a trademark of Watson-Marlow Limited. © STA-PURE PFL and © STA-PURE PCS are registered trademarks of W.L Gore & Associates Inc. Please state the product code when ordering pumps and tubing.

**WATSON  
MARLOW  
Pumps**

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