

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

PROFIBUS

Watson-Marlow Pumps

COMMON FEATURES AND BENEFITS

- All the benefits of a Watson-Marlow cased pump combined with the world's 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
- 0.0027 GPH up to 55.482 GPH with 520 pump fitted with 520RE pumphead
- 0.001 GPM up to 4.8 GPM with 620 pump fitted with 620RE pumphead
- 0.001 GPM up to 8.8 GPM with 720 pump fitted with 720RE pumphead
- Available in NEMA 2 option for the 520 and 620 and NEMA 4X option for the 520, 620, and 720 only



Watson-Marlow ... Value for life

TECHNICAL DATA

Pump	520Bp	520BpN	620Bp	620BpN	720BpN
Manual control					
Full calibration with choice of flow units	•	•	•	•	•
Choice of flow rate or speed display	•	•	•	•	•
MemoDose function	•	•	•	•	•
Auto restart facility	•	•	•	•	•
Guard switch detection			•	•	•
Leak detection	•	•	•	•	•
Fieldbus technology					
Profibus DP V0	•	•	•	•	•
Communication speeds from 9.6kbit/s up to 12000kbit/s	•	•	•	•	•
Auto detect bus speed	•	•	•	•	•
Parameterization					
Min speed	•	•	•	•	•
Max speed	•	•	•	•	•
Pump model	•	•	•	•	•
Pump head	•	•	•	•	•
Tubing	•	•	•	•	•
Pump address	•	•	•	•	•
Diagnostic functions					
General fault flag	•	•	•	•	•
Guard switch detection			•	•	•
Leak detection	•	•	•	•	•
Extended diagnostics					
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	NEMA 2	NEMA 4X	NEMA 2	NEMA 4X	NEMA 4X
Temperature	40F to 104F	40F to 104F	40F to 104F	40F to 104F	40F to 104F
Pump weight	21lb 10oz	23lb 9oz	43lb 3oz	44lb 3oz	55lb
Control ratio	2200:1	2200:1	2650:1	2650:1	3600:1
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	Part code
520 NEMA 2 Pumps	
520Bp/R PROFIBUS pump	050.7161.10A
520Bp/R2 PROFIBUS pump	050.7161.2LA
520Bp/REL PROFIBUS pump	050.7161.ELA
520Bp/REM PROFIBUS pump	050.7161.EMA
520Bp/REH PROFIBUS pump	050.7161.EHA
520Bp/L PROFIBUS pump	050.7161.5LA
520 NEMA 4X Pumps	
520BpN/R PROFIBUS pump	050.716N.10A
520BpN/R2 PROFIBUS pump	050.716N.2LA
520BpN/REL PROFIBUS pump	050.716N.ELA
520BpN/REM PROFIBUS pump	050.716N.EMA
520BpN/REH PROFIBUS pump	050.716N.EHA
520BpN/L PROFIBUS pump	050.716N.5LA
620 NEMA 2 Pumps	
620Bp/R PROFIBUS pump	060.4161.02A
620Bp/RE PROFIBUS pump	060.4161.E2A
620Bp/RE4 PROFIBUS pump	060.4161.E4A
620Bp/L PROFIBUS pump	060.4161.5LA
620 NEMA 4X Pumps	
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
720 NEMA 4X Pumps	
720BpN/R PROFIBUS pump	070.416N.000
720BpN/RE PROFIBUS pump	070.416N.E00

All flow rates shown were obtained pumping water at 20C (68F) with zero suction and delivery heads. Watson-Marlow, Loadsure, 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. ® CHEM-SURE and ® STA-PURE is a registered trademark of W.L Gore & Associates Inc. Please state the product code when ordering pumps and tubing.

**WATSON
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