

Quick Start Configuration Guide (for replacing an XP3000)

Configuration jumpers:

The C3000 has the configuration jumpers located in different locations (see figure on page 2). The functions of the jumpers are also slightly different. Please see below for jumper settings compared to XP3000 with standard software and microstep-enabled software:

Function	C3000	XP (std)	XP (micro)	Action
Protocol ¹	N/A	JP1-2	N/A	Installed = OEM
Reserved ²	J2-1			
EEPROM Mode	J2-2	JP1-3	JP1-3	Installed = Autostart
Overload Detection	J2-3	JP1-1	JP1-1	Installed = Disabled
Communication Rate	J2-4	JP1-4	JP1-4	Installed = 38.4K/125K
Valve ³	J2-5	JP4,1-2	N/A	Installed = 120° Valves

Note 1 - The C3000 has automatic protocol detection.

Note 2 - A spare jumper is provided on J2-1

Note 3 - The C3000 has a jumper to select between 120° 3-port valve, and all other valve types (90°).

RS-485 termination jumpers:

The C3000 has the configuration jumpers located in different locations (see figure on back). Pumps are shipped with termination jumpers installed. Remove them if not needed.

Function	C3000	XP3000	Action
RS-485A	J9-1	JP2,1-2	Installed = Terminated
RS-485B	J9-2	JP2,3-4	Installed = Terminated
CAN	J9-3	N/A	Installed = Terminated

Software Compatibility:

The C3000 is 100% compatible with the XP3000 protocols and documented command set. There are some commands and responses that are different as shown below:

Command	Value	Description	Difference
^	< n > 0..255	Sets threshold value for fluid detection	NA for C3000 ¹
z	none	Set position count to encoder count	NA for C3000 ¹
?4		Report actual position of plunger	NA for C3000 ¹
?22		Report current value from fluid sensor	NA for C3000 ¹
&		Report firmware version	New response ²
#		Report firmware checksum	New response ²

Note 1 - The C3000 does not include a valve fluid detector circuit or a high resolution encoder. These commands are accepted, but are not functional.

Note 2 - The C3000 has different electronics and firmware. These report commands will respond with the same amount of characters, but with different response data.

Quick Start Guide Cont. C3000 Jumper Locations

