



Hydrovar – Speed Control

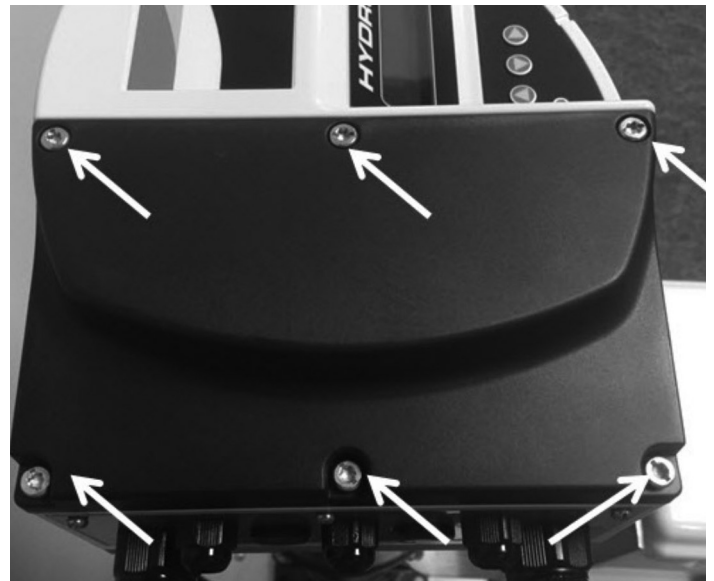
SPEED CONTROL (ACTUATOR MODE) QUICK-START GUIDE FOR FIFTH GENERATION HYDROVAR

The Hydrovar can be configured for speed control through an analog input. The controlling source can be an external control device such as a PLC, BMS, (Building Management System) or potentiometer. For independently powered signals, use AI2 on the X1 terminal.

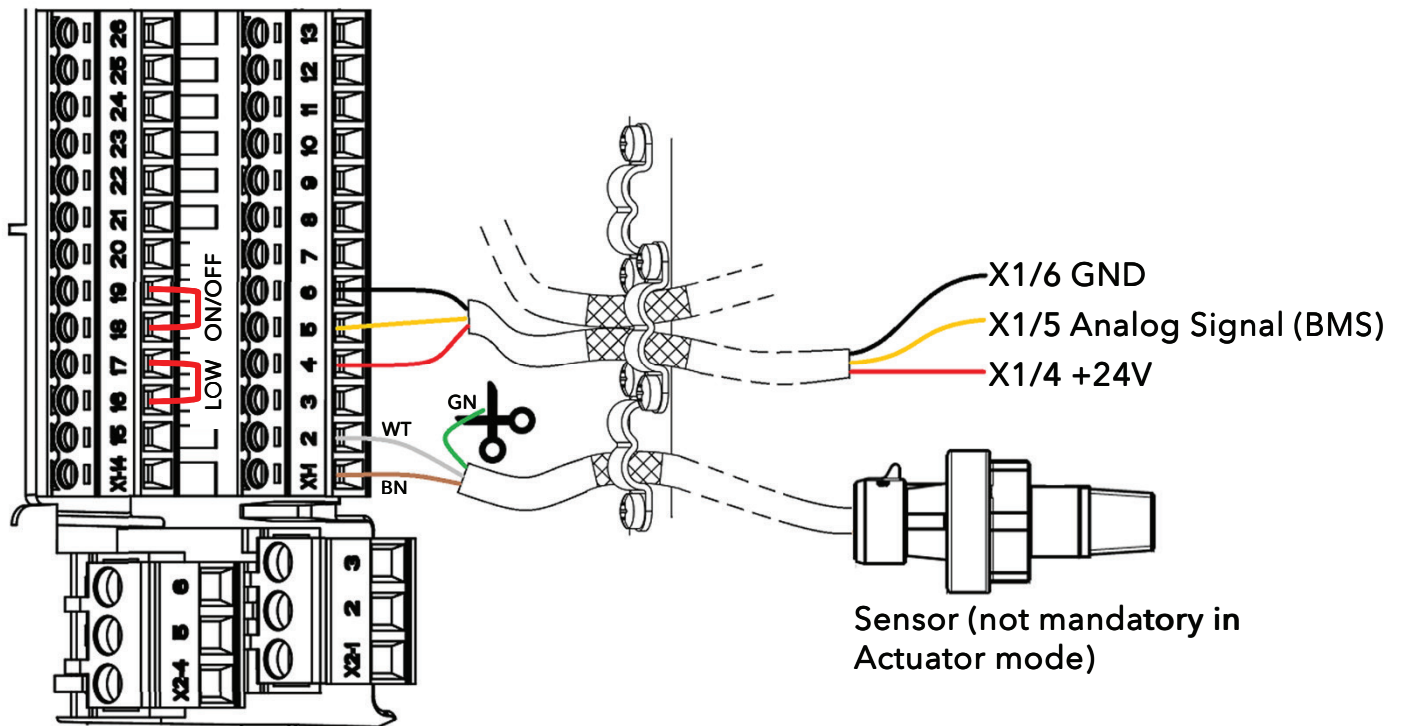
1. For a 4-20 MA input signal, wire your 4-20MA signal into X1 Terminal #5 and common on Terminal #6.
2. For a 0-10VDC input signal, wire your 0-10VDC signal into X1 Terminal #5 and common on Terminal #6.
3. For a 0-20 MA input signal, wire your 0-20 MA signal into X1 Terminal #5 and common on Terminal #6.

Input Signal	Positive Terminal	Negative Terminal
0-10 VDC	5	6
4-20 mA	5	6
0-20 mA	5	6

REMOVE COVER



Control the Required Value via Analog Input (without Premium Card)

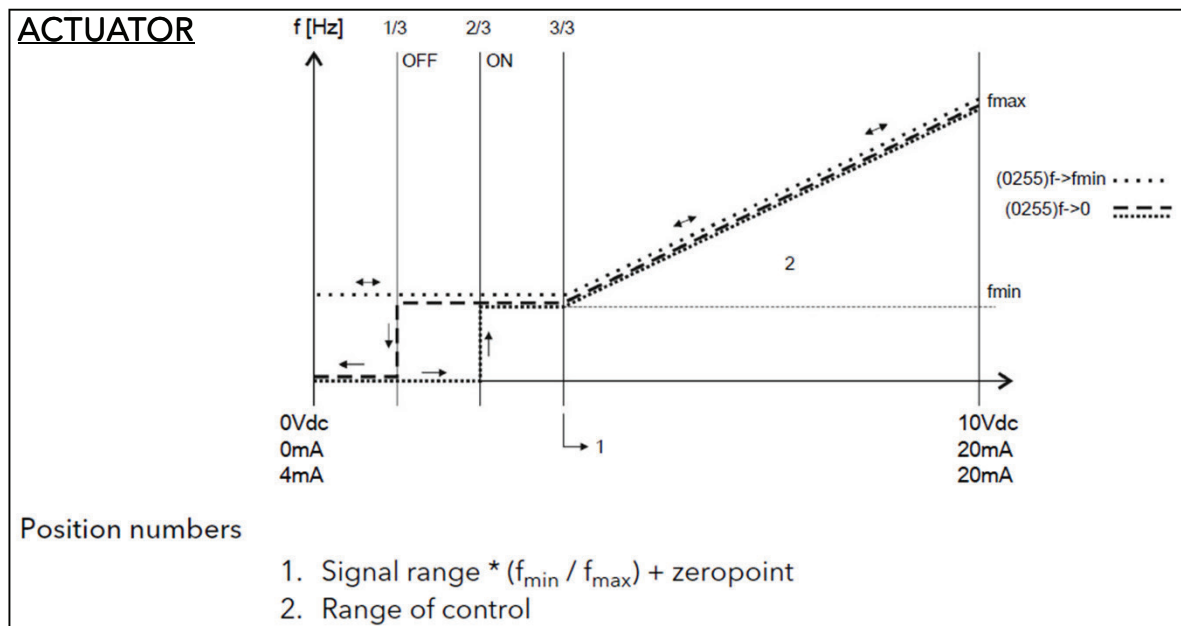


Only on SW ver 2.00 and 2.10	
P805 C.REQ.VAL.1	Analog ...
P815 SW.REQ.VAL.	Setpoint 1

On SW ver 2.20 and following	
P810 C.REQ.VAL.2	Analog ...
P815 SW.REQ.VAL.	Setpoint 2

Control the Required Value via Analog Input (without Premium Card)

- Use terminals X1/4-5-6 to connect the external analog signal;
- complete the Start-up menu (**M1300**);
- on parameter **P61 PASSWORD** enter the password "**66**" then hold pressed for 3 seconds the button: the password will return to "**00**" but the extended menu will be unlocked;
- Parameter **P410 CONF.SENSOR** must be set to "**Sensor 1**" (default parameter; if set differently, the Analog Input 2 on terminals X1/4-5-6 can be used only as actual value sensor input);
- On SW ver 2.00 and 2.10:
 - set parameter **P805 C.REQ.VAL.1** to one of the "Analog" selection ("**Analog U 0-10V**", "**Analog I 4-20mA**" or "**Analog I 0-20mA**");
 - parameter **P815 SW.REQ.VAL.** must be set to "**Setpoint 1**" or, if set to "**Switch Dig 1**", terminals X1/14-15 must be **open** (closed terminals select **Setpoint 2**);
- On SW ver 2.20 and following:
 - set parameter **P810 C.REQ.VAL.2** to one of the "Analog" selection ("**Analog U 0-10V**", "**Analog I 4-20mA**" or "**Analog I 0-20mA**");
 - parameter **P815 SW.REQ.VAL.** must be set to "**Setpoint 2**" or, if set to "**Switch Dig 1**", terminals X1/14-15 must be **closed** (open terminals select **Setpoint 1**);
- If parameter **P105 MODE (P1309)** is set to "**Actuator**", the system will work as depicted in the chart below; in all other working mode, the required value will be proportional to the analog value, with minimum analog value corresponding to 0 and maximum analog value corresponding to **P420 SENSOR RANGE (P1314)**.



Xylem Inc.

2881 East Bayard Street Ext., Suite A, Seneca Falls, NY 13148

Phone: (866) 325-4210 Fax: (888) 322-5877

www.xylem.com

