ACS800 HOW DO I PROGRAM THE DRIVE FOR AN INTERAL SETPOINT FOR PID AND PID FEEDBACK SOURCE TO FIELDBUS?

Description:

How could I program the ACS800 drive to use an internal set point when running in a PID mode? Also how could I program the drive to make the feedback for the PID loop come for the fieldbus?

Answer:

99.02 (APPLICATION MACRO) = PID-CTRL

11.02 (EXT1/EXT2 SELECT) = EXT2

11.06 (EXT REF2 SELECT) = PARAM 11.11

11.11 (EXT 2 REF PTR) = +.085.001.00

40.07 (ACTUAL1 INPUT SEL) = PARAM 40.25

40.25 (ACTUAL1 PTR) = +.085.002.00

90.01 (AUX DS REF3) = 8502

The ACS800 is now programmed that parameter 85.01 will be your internal PID Set Point.

The ACS800 is now programmed that parameter 85.02 will be the parameter location for the PID Actual Feedback. This value can be wrote with Modbus address (40007) or using index number (7).

The scaling for PID set point (85.01) and PID Actual Feedback (85.02) will be 0 to 10,000 units (100%) in the PLC and the set point parameter 85.01.

Author: Jeff Fell, Louis Chatfield – Application Eng.		Date: April 21, 2015
External http://www.abb.us/drives.	Industry – Industrial	Document #: LVD-EOTN91U-EN Revision: A
Product Categories: ACS800, RETA-01, RETA-02, RCNA-01, RDNA-01, RPBA-01, RCAN-01, RECA-01, RMBA-01		

Documents or other reference material:

Firmware Manual ACS800 Standard Control Program 7.x	3AFE64527592
Basic Guide to Communications ODVA (ControlNet, DeviceNet and EtherNet/IP)	LVD-PNTG03U-EN
Basic Guide to Communications PTO (Profibus DP, Profinet I/O)	LVD-PNTG06U-EN

Corrective Actions:

Follow the instructions above.