

## Objective

Provide tips for different PLC tools to be used with Eurotherm Drives products

## Equipment

Master PLC, Communication TechBox (6053/6055) or Communication LinkCard (L53xx)

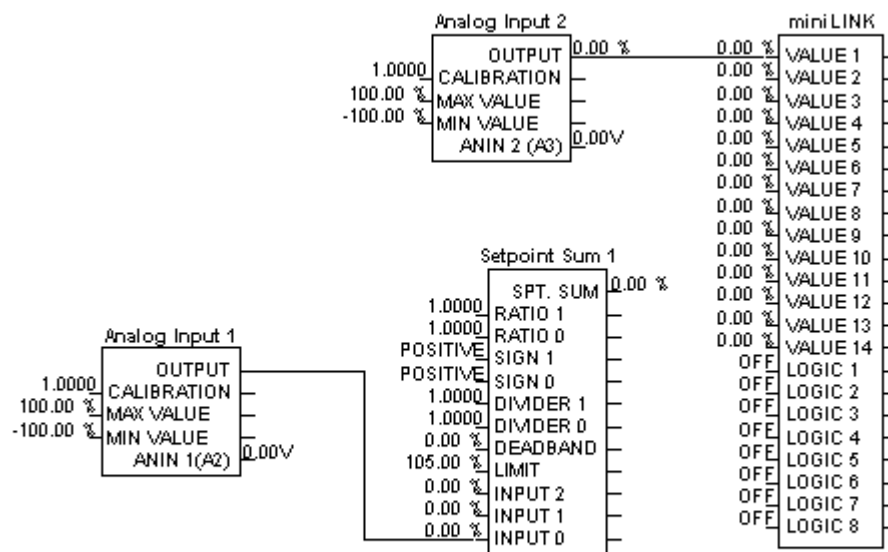
## Procedure

### FOR ALL DRIVE CONFIGURATIONS REGARDLESS OF PLC TYPE:

- Delete internal software connections to the drive parameter that will be written to by the PLC. Otherwise, the internal drive connection will overwrite the data to the specific tag number.
- The Eurotherm Drives datasheet file formats all parameters to be transmitted and received as 16-bit words.
- Any drive parameter with a tag number can be read or write via the PLC. I/O points that attach to customer connections must be properly triggered in the 590+ drive. Any function block output under the SYSTEM::CONFIGURE I/O::BLOCK DIAGRAM that is being read by the PLC must be triggered. The examples below show how to trigger correctly. The 690+ drive does not require the function block output to be connected to a system block to be triggered.

Note: The value for Analog Input 1 is read directly at Setpoint Sum 1::Input 0. The Setpoint Sum 1 block is the trigger for Analog Input 1.

Note: The value for Analog Input 2 is read directly at the miniLINK. The miniLINK block is the trigger for Analog Input 2.



If you have questions, please call the Product Support Group at (704) 588-3246.



Communication Option	Protocol	Master	Maximum Nodes	Maximum Words per Card	Communication Speed
L5351	Device Net (CAN Bus)	Allen-Bradley PLCs	64	127 per node	125, 250, 500 Kbaud
L5352	Modbus TCP/IP Ethernet IP	Modbus TCP/IP PCs and PLCs Ethernet IP Allen Bradley ControlLogix	256	256	10 or 100 Mbaud
L5353	Profibus	Siemens/TI PLCs	32	112	9.6, 19.2, 93.75, 187.5,500Kbaud, 1.5, 12 Mbaud
L5354	ControlNet	Allen-Bradley PLCs	99	240	5 Mbaud
L5355	Modbus TCP, Modbus Plus	Modicon PLCs	256	256	1 Mbaud
6055/DNET/00 6053/DNET/00	Device Net (CAN Bus)	Allen-Bradley PLCs	64	Limited by Polled Assy. Number	125, 250, 500 Kbaud
6055/MBP/00 6053/MBP/00	Modbus TCP, Modbus Plus	Modicon PLCs	256	Limited by I/O Point to Point selection	1 Mbaud
6055/CNET/00 6053/CNET/00	ControlNet	Allen-Bradley PLCs	99	Limited by I/O Point to Point selection	5 Mbaud
6055/ENET/00 6053/ENET/00	Modbus TCP/IP Ethernet IP	Modbus TCP/IP PCs and PLCs Ethernet IP Allen Bradley ControlLogix	256	590+ 20 Read, 20 Write words 690+ 36 Read, 36 Write words	10 or 100 Mbaud
6055/PROF/00 6053/PROF/00	Profibus	Siemens/TI PLCs	32	16 Read, 16 Write words	9.6, 19.2, 93.75, 187.5, 500 Kbaud, 1.5, 12 Mbaud
6055/EI00/00 6053/EI00/00 6513/00	EI Bisynch ASCII/Binary, Modbus RTU	Any PC or PLC with EI Bisynch or Modbus RTU comms.	256	32 Read, 32 Write words	1200 to 57600 Kbaud

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