

Technical Information Sheet

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TIS#: 288

Date: August 8, 2006

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Subject
5000/6000 Series Paperless Graphic Recorder as modbus/TCP Master to T800 V5 or greater as modbus/TCP Slave

6180V or 5180V

At version: V4 or V3.4.4

Options required: Modbus Master Comms; channels or math channels used as Master Comms 'registers';

Configuration can be accomplished through the front panel

T800/Eycon 10/Eycon 20

At version: 5.0 or greater

Options required: Ethernet

Configuration requires LINtools 2000 and the Modbus Tools

To configure the T800 as a modbus/TCP slave;

CONFIGURING the Comms Setup

Press the Menu key and select from SYSTEM from the Pop-Up menu

Press SETUP

Press COMMS

The Comms Setup page appears

Go to the ENET3 column

Change the Protocol to Modbus/S

Change the Node No. to that required for the modbus slave Unit ID

Set Talk Thru to None

ENET1 Protocol should already be ELIN

ENET1 Node No. is the LIN node address for that T800 and has nothing to do with the Node No. for ENET3 Protocol configured as Modbus/S

ENET 2 Protocol is typically configured as FTP

ADDING the GWF (MODBUS Gateway) file.

Open the Modbus Tools; Start/Eurotherm/LINtools Advanced/MODBUS Tools

Create a NEW configuration file (ULG type); File/New

Say Yes to 'No database loaded, do you want to select one?'

Browse to the directory where the application DBF file is located and Select and Open it

With the Port Properties tab selected

Select TCP in the Operating Mode section



SELECT the Registers tab

The purpose of the registers tab is to create a modbus map in the T800 that maps between fields in LIN function blocks and the registers in the T800 having definable modbus addresses

Add a register; right click/Select Add Register or other methods

Set the desired modbus Offset; know that this is the X part of the modbus register address

Set Count to 1 unless wanting to create multiple registers at once

Set Format to 16 (signed integer) or 32 bit (single precision float)

Set DP to implicit decimal points in a 16 bit format word. Does not apply to 32 bit

Set Read-Write to $M \leftarrow S$; this register will be Read Only

The slave address is defined in the T800 as above and shows '0' in the Register rows

Repeat for additional registers