Data Sharer

Purpose

It allows data sharing among HMI units on a LAN. The current implementation can support 16 HMI units on a LAN. Each HMI can have up to 256 words of data to share.

Working Principle

1) Data sharer is a virtual device. You have to create a link for your panel to connect with it. To select it, choose “Direct Link (Ethernet)” as the “Link Type” and choose PanelMaster’s Data Sharer as the “Device/Server”. There is only one thing you have to decide in the Parameter page, which is Panel Address. The address is used to identify the shared data.

2) Every HMI unit that wants to share the data of other HMI units or share its data to other HMI units must have a link to Data Sharer.

3) A HMI unit’s Data Sharer is responsible for broadcasting its owner’s shared data on the LAN. For example, if the panel address of a HMI unit is 10 and the link number of its Data Sharer is 2, the following Macro command will cause the Data Sharer to broadcast the corresponding data on the LAN.

   2\P10.0 = MOV($u300, 30)

4) Data Sharer will receive the broadcasted shared data on the LAN automatically. It has a block of memory to store the shared data. To access a word, use the following address, where m is the panel address and n is the word number of that panel’s shared data.

   Pm.n m=1~16; n=0-255

   To access a bit use the following address, where b is a hexadecimal number representing the bit number in that specified word.

   Pm.n.b m=1~16; n=0-255; b=0~f

5) The UDP is used for the data communication of Data Sharer on Ethernet. The Data Sharer supports RS-485 method also.