



HOLCON®

W2-DNET-S is the functionblock based software package (Network Block) that adds DeviceNet Slave functionality to your W2-FBC Series Function Block Controllers. W2-FBC Controllers are stand-alone or networked, IEC61499-compliant Function Block, event-driven, controllers.

Background

IEC61499 is a new international standard for highly distributed function block controls. It provides an event-driven mechanism for proper sequencing over multiple device nodes.

The W2 Series is a derivative controller from Western Reserve Controls WRC1 SmartMux®-Plus DeviceNet I/O Block and embedded controller. It supports real-time function block control, embedded JAVA, CAN, Ethernet, Discrete I/O, analog I/O, 2-axis servo positioning and RS232.

To meet different customer needs, a selection of network function blocks are being added. These add-on software packages are called Network Blocks. The first Network Block offered is DeviceNet Group 2 Only Slave.

The addition of an open standard such as DeviceNet allows the W2-FBC Function Block Controller to be used simply as dumb I/O or as a way to retrofit existing installations.

W2-DNET-S allows the W2-FBC I/O, as well as internally computed events and variables, to be read from and written to from a DeviceNet Master Device, such as a PC or PLC just as any I/O device.

Communications between W2- FBC Function Block Controllers can be passed via the DeviceNet Master Scanner or directly over the integral Ethernet port. W2- DNET-S does not support peerto-peer communications over DeviceNet at this time.

Services Supported include:

- Polling
- Change-of-State
- Cyclic
- Bit-Strobe
- Explicit Messages
- 125 Kb, 250 Kb, 500 Kb, and Autobaud switches or software selectable
- MAC ID switches or software selectable

Electronic Data Sheet (EDS) files provided with W2-DNET-S provide the DeviceNet Scanner configuration information for each of the I/O boards and parameters available with the W2-FBC Function Block Controllers. In addition to the I/O, multiple, 8-byte, user defined, scratchpad memory segments (Register Objects) are provided in the W2-FBC Function Block Controller where internally generated calculations, status, and events can be shared with the DeviceNet Master Scanner. The content of the scratchpad memory segments is defined using the W2- FBDK Function Block Development Kit.



WRC is a Rockwell Automation Encompass Partner for Gateway, Bus Extender and signal conditioning products.