

I/A Series[®] Software Binary Output (BOUT) Block



The Binary Output (BOUT) block sends one binary command which has two states, such as ON/OFF or START/STOP, to an address in an Allen-Bradley™ Programmable Logic Controller (PLC™).

OVERVIEW

The Binary Output (BOUT) block sends a specified binary value to the address of the PLC. When in Auto mode, BOUT accepts a binary input from an upstream control strategy. In Manual mode, it accepts a binary value from an operator set, generally via an I/A Series Display Manager or FoxView[™] display. When the secondary timer is set to 0, output from BOUT is change driven; the block only writes to the device when a change occurs in the value of the input. If this timer is non-zero, an output is forced when no change driven output has occurred for a specified number of seconds. To aid diagnostic testing, the structure of the block output causes the value read back from the PLC to be reflected in the block output. The value which was sent to the PLC as the request component is provided by another parameter.

BOUT provides a backcalculated output to upstream blocks to aid in cascade handling, and to alert upstream block to any abnormal situation.

BOUT can force an I/A Series station to Track mode during the initialization procedures in the PLC.

BOUT does not provide any alarm detection or reporting capability.



Features

- Separate block inputs for use in Auto and Manual mode
- Manual/Auto control of the block output signal; can be initiated by a host process or another block
- Specification of PLC destination point as devicespecific string
- Output optionally written to device only when output value changes
- Optional periodic outputs added to changedriven outputs
- Displayable output values for both request and readback values, to aid in diagnostic testing
- Change timer assures closed loop operation in both directions
- Specific point reserved for tracking notification from PLC
- Open cascade notification to upstream blocks.

Principal Parameters

Input

- 1 binary input, derived from strategy in Auto mode, or set by operator in Manual mode
- · Manual/Auto control mode switching

Output

- 1 binary output
- 1 binary backcalculated output.

SUPPORT

BOUT is a PLC block which allows the following I/A Series equipment to interface Allen-Bradley PLCs:

- AW70 processors with control software (see 70 Series Application Workstation Model AW70 [PSS 21H-4U1 B3])
- AW51 Integrators (see 50 Series Application Workstation Model AW51 [PSS 21H-4R1 B3])
- Micro-I/A[™] Station (see Field Automation Subsystem Micro-I/A[™] Allen-Bradley PLC5/E Remote I/O Interface [PSS 21H-6C6 B4])
- Allen-Bradley Station (see Allen-Bradley Station [PSS 21H-1F1 B3]).

PLC blocks are supported on I/A Series software version 6.2 or later. Value points for PLC blocks are listed in Micro-I/A FoxBlock[™] Integrated Control Software (PSS 21H-6C1 B4).

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