

Technical Bulletin

Setting a Meter Channel to Read Zero Below a Specified Threshold

Scope

This document applies to meter channels in ARC Plus, ARC Plus Touch and ARC Plus SL remote control systems.

Overview

The procedure below describes the use of AutoLoad Plus to configure an ARC Plus Virtual Meter Channel to display a value of zero when the channel input is less than a specified value. This will affect the channel value as displayed in AutoPilot, on the ARC Plus web page and on the ARC Plus Touch front panel display.

Autoload Plus Configuration

As an example, the following procedure shows how to zero-out the value in Meter Channel 1 when the input level is less than 4 millivolts. This is done by selecting a different unused meter channel, in this example Meter Channel 2, and configuring it as a virtual channel.

1. Open the AutoLoad Plus program and connect to the ARC Plus unit you wish to configure.
2. Select the Meter Channel tab.
3. Click the [...] icon under the Source heading at the right of the row corresponding to Meter Channel 2. This will display the Source dialog box as shown in the figure below.
4. Click on the Virtual Channel radio button to make this a virtual channel.
5. Enter the Virtual Channel Expression **(M1 > 4) * M1** as shown in the figure.

Source

Not Used PlusBus Plus-X Virtual Channel Set by a Macro Set by SNMP

Virtual Channel Expression

(M1>4) * M1

Mathematical operators: + - * / MOD
Logical operators: AND OR NOT XOR
Functions: SIN COS TAN LOG10 LN SQRT
Equality: = < > <= >=
Parentheses: ()
Meter values: M1 - M256
Meter values with offline state: MM1 - MM256
Status values: S1 - S256
Status values with offline state: SS1 - SS256
Raise relays: R1 - R256
Lower relays: L1 - L256
Macro variables: V1 - V256
Constant values: Any real number
Timer Seconds: TS1 - TS64
Timer Minutes: TM1 - TM64
Timer Hours: TH1 - TH64
Timer Days: TD1 - TD64
Timer Total Seconds: TTS1 - TTS64
Timer Total Minutes: TTM1 - TTM64
Timer Total Hours: TTH1 - TTH64
Timer Total 1000 Hours: TTKH1 - TTKH64

Reset this channel to its default settings

OK Cancel

6. Select OK.
7. Select File>Save to save the changes to the ARC Plus unit.
8. It is also good practice to select File>Save to File... to save a copy of the configuration file on the local computer.
9. Repeat these steps for any other desired channels.

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Thank you,

Burk Technology Technical Support Team

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