IC660BPM100

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Important Product Information

March 17, 1992
GFK–0476F

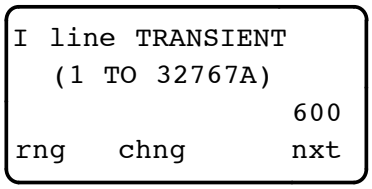
Product:

Genius PowerTRAC™ Block (IC660BPM100E)
MPMA1 Software Version 2.5
GENA1 Software Version 2.0

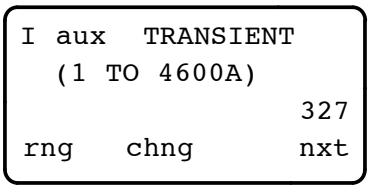
Operating Notes:

1. **Extended Transient Capture Threshold:** With this version of the PowerTRAC block, the peak programmable transient capture threshold has been raised to 32767 for the main current inputs (formerly 4500 amps), and 4600 for the secondary current inputs (formerly 450 amps).

   The Hand–held Monitor screens used to configure current line transient and auxiliary current transient have been changed to accommodate the higher thresholds.



Changed Current Line Transient Configuration Screen



Changed Auxiliary Current Transient Configuration Screen

   These changed configuration screens are now followed by a new screen, described below, for configuring the signs of VARs and Power Factor values. No upgrade to the Hand–held Monitor is needed to use these screens.

2. **Configurable Sign for VARs and Power Factor:** The PowerTRAC block can be used in many types of systems, some of which use sign conventions for VARs and Power Factor that are different than those described in the ***PowerTRAC Block User's Manual.*** To accommodate these differences, the block's sign conventions can now be configured. For most systems, the default sign conventions are appropriate.

   The following Hand–Held Monitor configuration screen is used to configure the block's sign convention:

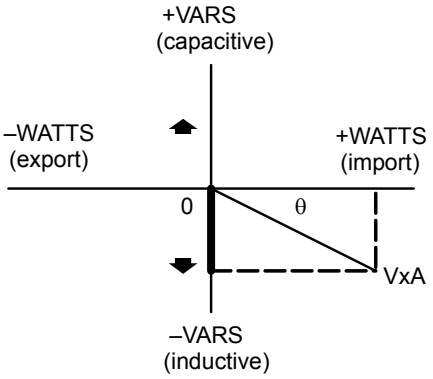
```
VAR/PF    SIGN   CONV
MODE:     A=O     B=1
                    0
rng    chng        nxt
```

Sign Convention Configuration Screen

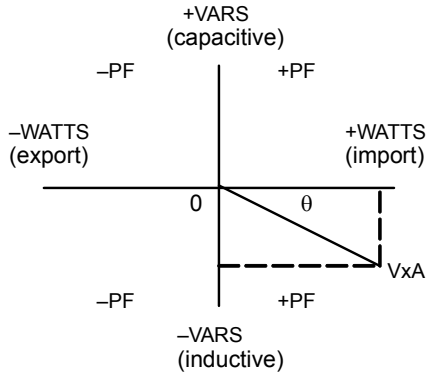
Mode A Configuration: (represented by 0 on the HHM display), selects the default signs, which function as shown below.

Sign of VARs if Mode A is Configured: By default, the block associates +VARs with capacitive circuits (current leads voltage) and –VARs with inductive circuits (current lags voltage).

Sign of Power Factor if Mode A is Configured: By default, the sign of Power Factor is based only upon the direction of power flow.



Sign for VARS: "Mode A"



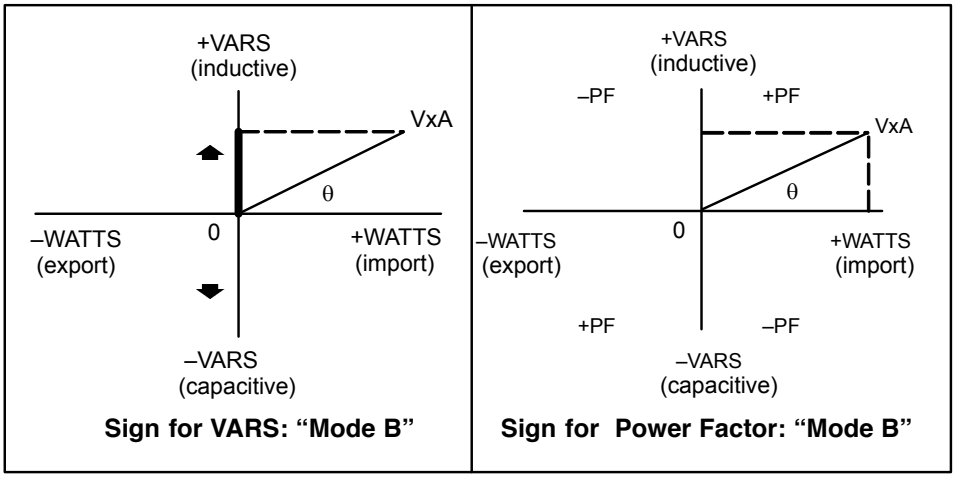
Sign for Power Factor: "Mode A"

Mode B Configuration: (1 on the HHM display)

Sign for VARs if Mode B is Configured: If the block is configured for "mode B" sign convention, +VARs are associated with inductive circuits and –VARs with capacitive circuits.

Sign for Power Factor if Mode B is Configured: In the "mode B" configuration, the sign of Power Factor is based on the relationship among the direction of power flow, the phase angle (capacitive or inductive) and the load.

In "mode B" configuration, Power Factor is positive if power is being received and the circuit is inductive (VARs are being imported), or if power is being delivered to the load and the circuit is capacitive (VARs are being exported). Power Factor is negative if power is being imported and the circuit is capacitive or if power is being exported and the circuit is inductive.



3. **Outputs Default to 0:** With this version of the PowerTRAC block, when communications with the bus controller are disrupted, outputs default to 0. With earlier block versions, outputs hold their last state if communications are disrupted.

4. **Forcing Outputs While Offline:** With this version, the PowerTRAC block will change outputs in response to a force ***regardless of the presence of outputs from the bus controller.*** Previous PowerTRAC block versions would not respond to forcing outputs if output data was not being received from the bus controller.

5. **Reconfiguring the PT Turns Ratio:** If you are upgrading firmware or using the block's Electronics Assembly to replace an Electronics Assembly that has MPMA1 software version 2.2 firmware, reconfigure the block's PT Turns Ratio. If the PT Turns Ratio is less than 10:1, it will be necessary to reconfigure the PT Turns Ratio.