Addendum for QPX600D & DP manual (48511-1460 Issue 8)

From Power supply Serial No. 426599 the rear panel LOGIC IN connection is protected from over-current damage by the addition of an 820Ω resistor in series with the opto-isolator input. The LOGIC IN input can still be driven by a current source >1mA as originally specified but can now be safely driven by a voltage source between approximately 3.3V and 20V.

The corresponding manual changes are as follows:

SPECIFICATION - LOGIC CONTROL INPUT and OUTPUT (Each Output)

Before Serial No. 426599: LOGIC IN is a rear-panel opto-isolated input that is activated at an input current greater than approximately 1mA. User can set LOGIC IN (via the keyboard) to enable the output, disable the output, or be ignored when it is activated.

After Serial No. 426599: LOGIC IN is a rear-panel opto-isolated input with an 820Ω resistor in series that is activated at an input voltage greater than approximately 3.3V. The maximum voltage that can be applied without damaging the unit is 20V and the input should not be taken negative by more than 3V. User can set LOGIC IN (via the keyboard) to enable the output, disable the output, or be ignored when it is activated.

REAR PANEL CONNECTIONS - Logic Input (each output)

Before Serial No. 426599: LOGIC IN is connected directly to the input of an isolating opto-coupler; there is no series resistor. The input is activated when a current greater than approximately 1mA is forced between LOGIC IN and LOGIC COMMON. The function of LOGIC IN is set from the keyboard.

Do not force a current exceeding 25mA between the terminals. Do not apply a voltage to LOGIC IN / LOGIC COMMON exceeding 50V with respect to ⏚.

After Serial No. 426599: LOGIC IN is connected to the input of an isolating opto-coupler via an 820Ω resistor in series. The input is activated by an input voltage greater than approximately 3.3V between LOGIC IN and LOGIC COMMON; up to 20V may be applied to the input but it should not be taken negative by more than 3V. The active input current will be between 2mA and 25mA, depending on applied input voltage. The function of LOGIC IN is set from the keyboard.

Do not apply a voltage to LOGIC IN / LOGIC COMMON exceeding 50V with respect to ⏚.

MANUAL OPERATION - INDEPENDENT MODE - Logic Control Input and Output (part)

Before Serial No. 426599: LOGIC IN is connected directly to the input of an isolating opto-coupler; there is no series resistor. The input is active when an input current greater than approximately 1mA is forced between LOGIC IN and LOGIC COMMON.

After Serial No. 426599: LOGIC IN is connected to the input of an isolating opto-coupler via an 820Ω resistor in series. The input is activated by an input voltage greater than approximately 3.3V between LOGIC IN and LOGIC COMMON; do not apply an input voltage greater than 20V.

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