

Mitsubishi GT27-V4R1-Z Manual

Brand	Mitsubishi
Product Series	Mitsubishi Pepperl+Fuchs Omron
Product Type	Video/RGB Input Unit

Description

The GT27-V4R1-Z from Mitsubishi is part of the GOT2000 series and functions as a versatile video/RGB input unit. It supports multiple video and RGB input signals, enabling their display on compatible GOT2000 HMI.

Technical specifications for GT27-V4R1-Z

Manufacturer Mitsubishi

Product Line GOT2000

Part Number GT27-V4R1-Z

Weight 10.00 lbs (4.54 kg)

Device Type Video/RGB Input Unit

Series Compatibility GOT2000 Series

Applicable Models GT27

Functionality Accepts video and RGB input signals for display on the connected GOT2000 series HMI

Video Input Channels 4 channels; each channel can display one video input at a time

Video Input Signal Type Composite video signals (NTSC/PAL formats)

Video Input Signal Level 1 Vp-p, 75 Ω impedance

RGB Input Channel 1 channel

RGB Input Signal Type Analog RGB signals (XGA: 1024 x 768 pixels, SVGA: 800 x 600 pixels, VGA: 640 x 480 pixels)

RGB Input Signal Level 1 Vp-p, 75 Ω impedance

RGB Input Synchronization Signal TTL level, 1 k Ω impedance

Display Resolution for RGB Input XGA: 1024 x 768 pixels (refresh rate 60 Hz)

SVGA 800 x 600 pixels (refresh rate 60, 72, 75 Hz)

VGA 640 x 480 pixels (refresh rate 60, 72, 75, 85 Hz)

Connector Types BNC connectors for video input

Description

The Mitsubishi GT27-V4R1-Z is a specialized video and RGB input unit within the GOT2000 series. It effectively processes and displays input signals for the associated HMI devices. Up to four video input channels are available, each capable of transmitting one video signal at a time. The supported composite video inputs conform to NTSC and PAL formats, with a standard signal level of 1 Vp-p and a 75 Ω impedance.

This unit incorporates video inputs and a singular RGB input channel, allowing for the handling of analog RGB signals at different resolutions. It supports three notable formats: XGA (1024 x 768 pixels), SVGA (800 x 600 pixels), and VGA (640 x 480 pixels). The RGB input signal is also set at 1 Vp-p with a 75 Ω impedance, while a TTL-level signal provides synchronization with a corresponding impedance of 1 k Ω .

Display capabilities are determined by the selected resolution, with the GT27-V4R1-Z ensuring a refresh rate of 60 Hz for XGA input. Refresh rates can vary for SVGA and VGA inputs; SVGA supports 60, 72, or 75 Hz, while VGA can manage rates up to 85 Hz. This flexibility caters to various display requirements in industrial settings. The unit utilizes BNC connectors for video inputs, ensuring straightforward installation and integration in control systems.

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