

4 RMN-001

CHANNEL GENERATOR



DESCRIPTION

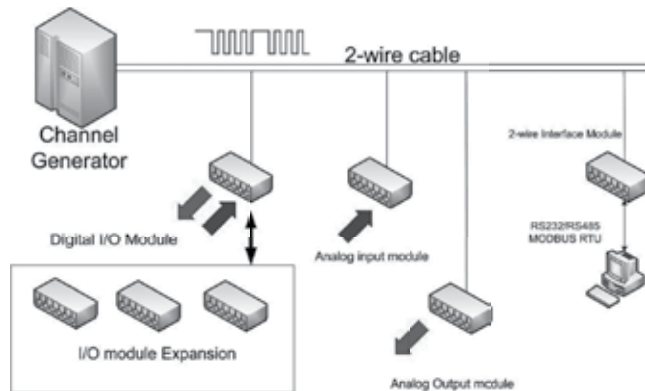
- RMN-001 is a channel generator that generates 2 kHz pulse signals to pass through 2 signal Wire to create an I/O Channel
- Can check the accuracy of data and send checksum
- Frame rate up to 8 frames per phase.
- Power LED (Green), Run (Orange), and Alarm (Red) for display working status
- Alarm output is active when there is a communication error

TECHNICAL SPECIFICATION

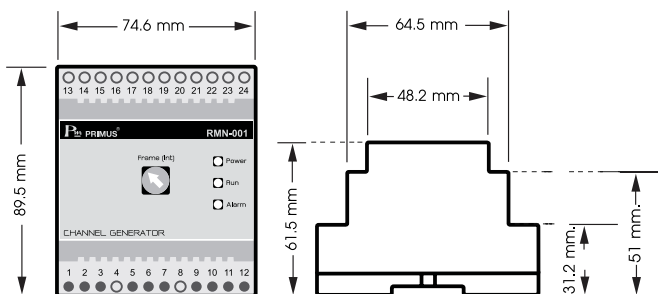
Power Supply	220 VAC \pm 10 % 50/60 Hz
Setting	1 Rotary Switch
Alarm Relay	5A/250VAC or 5A/ 30VDC
Operating Temperature	0 to 60 °C
Operating Humidity	20 to 85 %RH None Condensing
Insulation Resistance	>100M Ω
Insulation Category	CAT II
Terminal Size	For Cable \varnothing 0.2 to 2.5 mm (AWG22 to14)
Material	PC-ABS (UL 94V-0)
Installation	DIN RAIL Mounting
Size	89.5 x 74.6 x 61.5 mm.
Weight	215 g

OPERATION

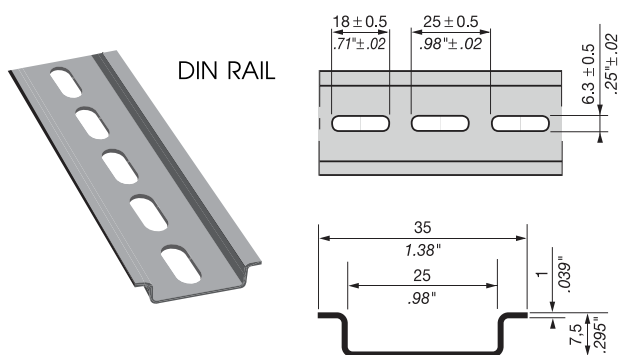
The RMN-001 Channel Generator is the heart of the two-wire remote control system, which generates a pulse signal that is transmitted to the 2-wire line to generate a signal that provides the I/O module. Can communicate via RS-485



DIMENSION



INSTALLATION



Front of the Channel Generator is a Rotary Switch used to determine the number of frames. To send data in each phase. This determines the maximum number of channels that can be communicated, and determines the sensitivity of the I/O Module by detecting data errors made during transmission of the Channel Generator. It checks the validity of the data and sends the checksum value. Enter the last frame of the data frame to the I/O Module to confirm that the data generated by the Channel Generator. Receives matches the data that the I/O Module sends or receives

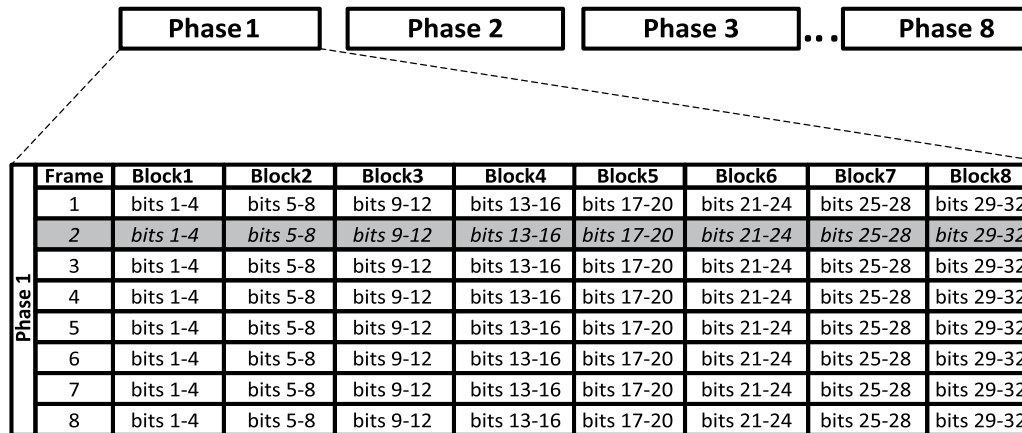
If the data on both sides is not matched, Channel Generator will repeat this signal again. If there is still another internal error. Channel Generator gives alarms through LED alarms (Red LED) and Alarm Output is active when power is supplied to RMN-001. LED Power (Green LED) is always on and when RMN-001 is started. Pulse signal If the signal can be commanded normally, LED RUN (yellow LED) will work. If you can not generate a pulse signal, the LED RUN (yellow LED) will not work

When an error occurs, the alarm relay and the LED alarm (red LED) will run

CONFIGURATION

Phase 4 bits	Frame 4 bits	Data 32 bit แบ่งเป็น 8 Box, Box ละ 4 bits	Checksum 4 bits
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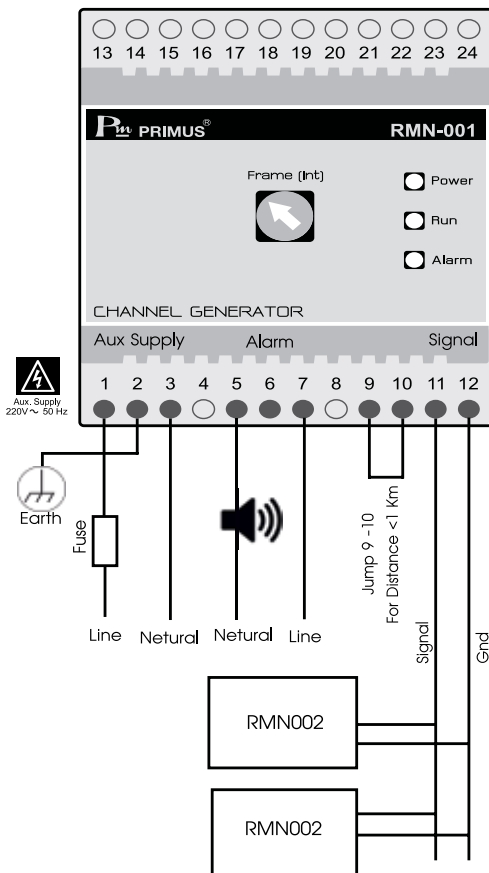
As show in figure 1 Frame used for Communication



As show in figure 2 the transmission characteristics of 2-wire protocol

WIRING DIAGRAM

ORDERING CODE



RMN-001

WARNING

- Terminals: MAX.250V ∴ CAT II
- Make sure the correct wiring connection before turning on electricity. Mis-wiring may cause malfunction of the unit and fire.
- Never modify the unit to prevent damage or incident such as malfunction and fire etc.