

Zelio® RM17 and RM35 Control and Measurement Relays

**Simply Smart: Leveraging ingenuity and intelligence
for ease of use**

The new Telemecanique® brand Zelio RM17 and RM35 control and measurement relays offer expanded functionality for equipment monitoring in process industries. The relays detect abnormal operating conditions in industrial machinery, allowing users to initiate the necessary corrective actions before serious and costly breakdowns occur.

The new lines replace the RM4 and RM84 control and measurement relays. Compared to the previous models, the RM17 and RM35 relays can monitor more values and in some cases take up less panel space. In addition, the Zelio RM17 and RM35 relays have a uniform appearance with other Schneider Electric control products, making them an attractive choice for control panel builders who seek uniformity.

The new control and measurement relays include four new product categories — frequency, pump, speed and temperature control — that join the existing control and measurement relays: phase control voltage, current and level, to expand protection to more fields for more equipment.

What can the Zelio RM17 and RM35 control and measurement relays do for you?

■ Phase control relays

- Provide detection of three-phase electrical network faults, such as single-phase operating mode or overheating
- Monitor phase loss, imbalance and sequencing
- Detect the need for maintenance and/or corrective operations before additional costs are incurred due to production shutdown, motor repair or replacement
- Extend service life of three-phase motors

■ Voltage control relays

- Monitor input voltage levels compared to a high or low thresholds preset by the user
- Measures over- and under-voltage
- Suitable for VAC and VDC
- Adjustable time delay

Where do you use Zelio measurement and control relays?

■ Industrial Machinery

- Pump
- Cranes, truck refrigeration units
- Overhead cranes, winches
- Elevators, escalators
- Fans, air extractors
- Mining excavators and conveyors

■ Facility and Infrastructures

- Water treatment



Zelio RM17 and RM35 Control and Measurement Relays

■ Current control relays

- Measures under- and over-current and provides continuous monitoring of the operation of electrical and mechanical loads, such as motors and resistors
- Suitable for VAC or VDC
- Simple to install and adjust

■ Expanded protection

- Frequency control monitors positive or negative frequency
- Temperature control monitors the temperature in control or pulley rooms
- Level control monitors or maintains levels, mainly of liquids
- Pump control manages pump functions
- Speed control monitors rotation speed, transporter or conveyor belt speed and pump rotation

Product Specification

Contact Configuration	1 C/O, 2 C/O contacts
Types of Monitoring	Phase presence, sequence and balance, voltage, current, frequency, liquid level, process operating rate
Ambient Air Temperature	(Storage) -40...+158°F (-40... +70°C) (Operation) -4... +122°F (-20... +50°C)
Product Certifications (pending)	UL, CSA, RoHS, CE, GL, C-Tick, GOST

Product Selection

Application	Control of 3- Phase Supplies	Control of 3-Phase Supplies	Voltage Control	Voltage Control	Current Control
Functions	Phase sequence, phase failure, asymmetry	Phase sequence, phase failure, asymmetry, over-voltage and under-voltage	Over-voltage or under-voltage in window mode, self-powered	Over-voltage and under-voltage	Over-current or under-current
Values Controlled	208...480 VAC, 208...440 VAC	208...480 VAC, 220...480 VAC	20...80 VAC/VDC, 65...260 VAC/VDC	0.05...5 VAC/VDC, 1...100 VAC/VDC, 15...600 VAC/VDC	2...500 mA, 0.15...15 A
Output	1 or 2 C/O contacts	1 or 2 C/O contacts	1 C/O contact	2 C/O contacts	2 C/O contacts
Size Inch (mm)	.688 (17.5mm)	.688 (17.5mm) or 1.377 (35mm)	.688 (17.5mm)	1.377 (35mm)	1.377 (35mm)
Catalog Number	RM17TG0	RM17TE00	RM17UBE1	RM35UA1MW	RM35JA3MW

For more information

Visit our Web site at www.us.telemecanique.com for more information on Zelio control and measurement relays. The following literature is available from your authorized Square D® distributor or Schneider Electric sales office:

- Zelio Control Measurement Relays Catalog, document number 8430CT0601

Schneider Electric - North American Operating Division

8001 Knightdale Boulevard
Knightdale, NC 27545
Tel: 800-468-5342
www.us.telemecanique.com