Voltage measurement **VLT** Frequency measurement FRE Multi 9 Merlin Gerin

The modular and flush-mounting VLT Voltmeters and FRE Frequency Meter are designed to take voltage and frequency measurements,

respectively, on all types of low voltage electrical circuits.



VLT: 16005

Operation

Flush-mounting voltmeter:

■ Analog VLT:

□ voltage is read in volts directly on an interchangeable dial, 72 mm high and 72 mm wide with a scale of 90°.

Modular voltmeters and frequency meter:

■ Analog VLT:

□ voltage is read in volts on an interchangeable dial with a scale of 90°.

■ Digital VLT:

□ voltage is read in volts on a 3-digit display with red LED.

■ Digital FRE:

□ frequency is read in Hertz (Hz) on a 3-digit display with red LED.



VLT: 16061

Advantages

A comprehensive, modern product range designed to adapt to all kinds of electrical installations.

- Comfort:
- □ clear, accurate measurements,
- □ interchangeable dials.
- Attractive design:
- □ compact dimensions,
- □ modern.
- Installation:
- □ ease of mounting and connection,
- □ optional connection with a voltmeter selector switch (for the VLT).
- Modular VLT and FRE consistent with the entire Multi 9 offer:
- □ same profile.
- □ same connections.



VLT: 15201

The range

Modular layout multimeter PM9 (product datasheet M9FP256.en)







AMP



AMP







AMP 72x72 (product datasheet M9FP190.en)

Flush-mounting layout















VLT 72x72





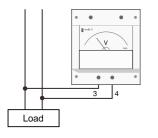


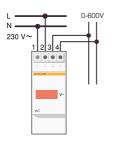


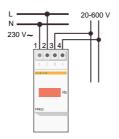
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- Installation:
- □ adapted to all types of modular electrical switchboards and enclosures,
- □ ease of installation on symmetrical rail.
- Installation of the flush-mounting VLT:
- □ requires a square cut-out in the wall.

Schematic diagrams



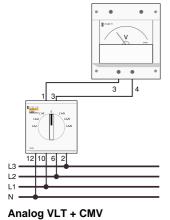


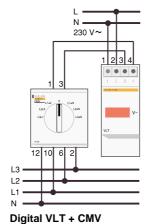


Analog VLT

Digital VLT

Digital FRE





Technical data

Mechanical data:

Flush-mounting VLT

- Operating position: 30°/vertical.
- Scale length in 90°: 62 mm.
- Connection by 4mm Ø lugs.
- Overall dimensions: h = 72; w = 72 mm.
- Weight (g): 180.

Analog modular VLT

- Ferromagnetic device.
- Connection:
- $\hfill\square$ tunnel terminals for 1.5 to 6 mm² rigid cable.
- Pseudo-linear scale over 90°.
- Overall dimensions: h = 79; w = 72; d = 66 mm.
- Weight (g): 170.

Digital modular VLT/FRE

- Display: 3-digit display with red LED, h: 8 mm.
- Connection:
- □ tunnel terminals for two 2.5 mm² cables.
- Full-scale accuracy: 0.5% ±1 digit.
- Overall dimensions: h = 87; w = 36; d = 61 mm.
- Weight (g): 170.

Environment

Flush-mounting VLT

- Complies with standards: IEC 414 IEC 61010.
- Degree of protection on front face: IP 520.
- Installation ambient temperature: -25°C to +50°C.
- Storage temperature: -40°C to +80°C.
- Effect of temperature on accuracy: ±0.03%/°C.

Analog modular VLT

- Complies with standards: IEC 51 IEC 414.
- Degree of protection:
- □ of terminal block IP 40,
- □ of terminals IP 20.
- Installation ambient temperature: -25°C to +55°C.
- Storage temperature: -40°C to +80°C.
- Reference temperature: 23°C.
- Effect of temperature on accuracy: ±0.03%/°C.

Digital modular VLT/FRE

- Complies with standards: IEC 61010.
- Degree of protection:
- □ of terminal block IP 40,
- □ of terminals IP 20.
- Installation ambient temperature: -25°C to +55°C.
- Storage temperature: -40°C to +80°C.

Choice table

Type (Overall dimensions	Consumption	Accuracy class	Permanent overload	Instantaneous overload for 5 sec.	Auxiliary source		Cat. no.
Scale	in mod. of 9 mm					Voltage VAC (-15+10%)	Frequency (Hz)	
	or in mm							
Modular devices	S:							
Analog VLT								
0 300 V	8	2.5 VA	1.5	1.2 Un	2 Un		5060	16060
0 500 V	8	3.5 VA	1.5	1.2 Un	2 Un			16061
Digital VLT								
0 600 V	4	0.3 VA		1.1 Un		230	5060	15201
Digital FRE								
20 100 H	z* 4	0.3 VA		1.1 Un		230	5060	15208
Voltmeter sel	ector switch (7 pos	itions)						
CMV	4			1,1 Un		415	5060	15125
* Network voltage	e: 20-600 V.							

Flush-mounting devices:

riusii-mounting devices.									
	Analog VLT								
	0 500 V	72 X 72	3 VA	1.5	1.2 Un	2 Un		5060	16005
	Voltmeter selector switch (7 positions)								
_	CMV	48 X 48			2 Un		500	5060	16018

Schneider Electric

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As standards, specifications and designs develop from time to time, always ask for confirmation of the information given in this publication.

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