

Phasor Measurement Unit: PMU

PMU (standard product)

Smart Coding & Options Selection

2020-03-03



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Vizimax Reference Number

Choose among the following options to complete the part number

PMU010000									
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1 - PMU Base configuration

PMU base unit includes: 4x CT inputs (1A or 5A) + 4x PT inputs + 4x digital signaling outputs (2x Form C + 2x Form A) + 2x serial ports + 3x RJ45 Ethernet 100BASE-T ports (1 reserved for service port) + 2x PPS/IRIG-B inputs (1x fiber optic ST input + 1x BNC input/output): Supports IEEE C37.118-2.2011 (and 2005), IEC 61850-GOOSE publisher and Modbus (slave) protocols.	PMU010000
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2 - PMU Final Configuration and Options

a - Mounting

Standard Mount (No face plate)	SM								
Panel Mount (With a 12" face plate including brackets for panel mount)	PM								
Rack Mount (with a 19" rack mount face plate)	RM								

b - Language

The selected language applies to the face plate, the documentation and the software user interface

English	EN								
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c - Power supply

The selected voltage applies to the main power supply and to the optional digital inputs

48 Vdc				1					
125 Vdc				3					
220 Vdc				4					

d - Current Input (CT Connections)

1 Amp RMS nominal current				1					
5 Amps RMS nominal current				5					

e - Ethernet communication ports configuration

Standard : 2x RJ45 + 1x RJ45 service port connections								0	
Option PMC010000 : Replace 2xRJ45 by 2x Fiber Optic ST multimode; (service port remains 1xRJ45) - See Note 1								1	
Option PMC020000 : Replace 2xRJ45 by 2x Fiber Optic LC single mode; (service port remains 1xRJ45) - See Note 1								2	
Option PMC021000 : Replace 2xRJ45 by 2x Fiber Optic LC multimode; (service port remains 1xRJ45) - See Note 1								3	

Note 1 : Options are not included in the price of PMU unit (PMU010000). Additional costs may apply, please contact your sales rep.

f - Digital Inputs/Outputs

Standard : 4x Signalization digital outputs (relay)									0
Option PMC001000 : 4x Signalization digital outputs (relay) +10x Digital input + 6x high current digital outputs. See Note 2									1

This option enables the IEC61850 GOOSE subscriber protocol with XCBR control model.

Note 2 : This option is not included in the price of PMU unit (PMU010000). Additional costs may apply, please contact your sales rep.

g - Time synchronization

Standard : either by PTP1588 Ethernet clock or IRIG-B / PPS input or NTP over Ethernet									0
Option PMC000100 : Built-in GPS receiver allowing PMU time synchronization in autonomous mode. See notes 3 and 4									1

Note 3 : This option is not included in the price of PMU unit (PMU010000). Additional costs may apply, please contact your sales rep.

Note 4 : Please note the GPS antenna and mounting accessories are not included in the built-in GPS receiver option.

h - Options

Standard : No additional option										0
Option PMC000200 : Analog values published in the form of sampled values (SV) that comply with IEC 61850-9-2LE and IEC 61869-9 standards - See note 5										A

Note 5 : This option is not included in the price of PMU unit (PMU010000). Additional costs may apply, please contact your sales rep.

Smart coding examples

PMU unit, rackmount, English version, 125Vdc, 1A CT, 2x RJ45 + 1 RJ45 Standard ethernet communication, 10x DI and No GPS.

PMU010000	RM	EN	3	1	0	0	0	0	0
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Phasor Measurement Unit For Real-Time Simulation: PMU-RTS

PMU-RTS (for hardware-in-the-loop simulation)

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Vizimax Reference Number

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Choose among the following options to complete the part number

PMU010000			L	L	L				
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3 - PMU-RTS Final Configuration and Options

a - Mounting

Standard Mount (No face plate)	SM								
Panel Mount (With a 12" face plate including brackets for panel mount)	PM								
Rack Mount (with a 19" rack mount face plate)	RM								

b - Language

The selected language applies to the face plate, the documentation and the software user interface

English	EN								
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c - Power supply

The selected voltage applies to Digital inputs and the main power supply

24 Vdc - See Note 1			L						
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Note 1 : Wall mount adapter provided (100-240 V / 50-60Hz)

d - AC Measurement Inputs

10 Vrms			L						
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e - Ethernet communication ports configuration

Standard : 2x RJ45 + 1x RJ45 service port connections						0			
Option PMC010000 : Replace 2xRJ45 by 2x Fiber Optic ST multimode; (service port remains 1xRJ45) - See Note 2						1			
Option PMC020000 : Replace 2xRJ45 by 2x Fiber Optic LC single mode; (service port remains 1xRJ45) - See Note 2						2			
Option PMC021000 : Replace 2xRJ45 by 2x Fiber Optic LC multimode; (service port remains 1xRJ45) - See Note 2						3			

Note 2 : Options are not included in the price of PMU-RTS unit (PMU010000). Additional costs may apply, please contact your sales rep.

f - Digital Inputs/Outputs

Standard : 4x Signalization digital outputs (relay) + 10x Digital input + 6x high current digital outputs, enabling the IEC61850 GOOSE subscriber protocol with XCBR control model.							L		
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g - Time synchronization

Standard : either by PTP1588 Ethernet clock or IRIG-B / PPS input or NTP over Ethernet								0	
Option PMC000100 : Built-in GPS receiver allowing PMU-RTS time synchronization in autonomous mode. See notes 3 and 4								1	

Note 3 : This option is not included in the price of PMU-RTS unit (PMU010000). Additional costs may apply, please contact your sales rep.

Note 4 : Please note the GPS antenna and mounting accessories are not included in the built-in GPS receiver option.

h - Options

Standard : No additional option									0
Option PMC000200 : Analog values published in the form of sampled values (SV) that comply with IEC 61850-9-2LE and IEC 61869-9 standards - See note 5									A

Note 5 : This option is not included in the price of PMU-RTS unit (PMU010000). Additional costs may apply, please contact your sales rep for more information.

Smart coding examples

PMU-RTS unit: rackmount, English version, 24Vdc, AC inputs 10Vrms, 2x RJ45 + 1 RJ45
Standard ethernet communication, 4xDO(relay), 10xDI, 6x DO and No GPS

PMU010000	RM	EN	L	L	0	L	0	0
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