Stand Alone Merging Unit : AMU

AMU (standard product)

Smart Coding & Options Selection
2025-06-18

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Vizimax Reference Number

Choose among the following options to complete the part number

MGU010000								0

1 - AMU Base configuration

AMU base unit includes: 4x CT inputs (1A or 5A) + 4x PT inputs + 10x digital 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 IEC 61850-9-2LE, IEC 61869-9, IEC 61850-GOOSE publisher and Modbus (slave) protocols.	MGU010000

2 - AMU 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						

c - Power supply

The selected voltage applies to the main power supply and to the 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 MGC010000 : Replace 2xRJ45 by **2x Fiber Optic ST multimode**; (service port remains 1xRJ45) - See Note 1					1			
Option MGC020000 : Replace 2xRJ45 by **2x Fiber Optic LC single mode**; (service port remains 1xRJ45) - See Note 1					2			
Option MGC021000 : 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 AMU unit (MGU010000). Additional costs apply, please contact your sales rep.

f - Digital Inputs / Outputs

Standard : 4x Signalization digital ouputs (relay) + 10x Digital inputs						0		
Option MGC001000 : 4x Signalization digital ouputs (relay) + 10x Digital inputs + 6x High current digital outputs - See note 2 This option enables the IEC61850 GOOSE subscriber protocol with XCBR control model.						1		

Note 2 : This option is not included in the price of AMU unit (MGU010000). Additional costs 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 MGC000100 : Built-in GPS receiver allowing AMU time synchronization in autonomous mode - See notes 3 and 4							1	

Note 3 : This option is not included in the price of AMU unit (MGU010000). Additional costs 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

Smart coding examples

AMU unit, rackmount, English version, 125Vdc, 1A CT, 2x RJ45 + 1 RJ45 Standard ethernet communication, 4xDO (relay), 10x DI and No GPS.

MGU010000	RM	EN	3	1	0	0	0	0

Stand Alone Merging Unit for Real-Time Simulation: AMU-RTS

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

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Vizimax Reference Number

Choose among the following options to complete the part number

MGU010000			L	L		L		0

3 - AMU-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 documentation and software user interface

English		EN						

c - Power supply

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

24 Vdc - See Note 1			L					

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

d - AC Measurement Inputs

10 Vrms				L				

e - Ethernet communication ports configuration

Standard : 2x RJ45 + 1x RJ45 service port connections					0			
Option MGC010000 : Replace 2xRJ45 by **2x Fiber Optic ST multimode**; (service port remains 1xRJ45) - See Note 2					1			
Option MGC020000 : Replace 2xRJ45 by **2x Fiber Optic LC single mode**; (service port remains 1xRJ45) - See Note 2					2			
Option MGC021000 : 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 the AMU-RTS (MGU010000). Additional costs apply, please contact your sales rep.

f - Digital Inputs / Outputs

Standard : 4x Signalization digital ouputs (relay) + 10x Digital inputs + 6x High current digital outputs, enabling the IEC61850 GOOSE subscriber protocol with XCBR control model.						L		

g - Time synchronization

Standard : either by PTP1588 Ethernet clock or IRIG-B / PPS input or NTP over Ethernet							0	
Option MGC000100 : Built-in GPS receiver allowing AMU time synchronization in autonomous mode - See notes 3 and 4							1	

Note 3 : This option is not included in the price of AMU-RTS unit (MGU010000). Additional costs 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

Smart coding examples

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

MGU010000	RM	EN	L	L	0	L	0	0