

Power: 10/10 and 15/15 Position GMT Fuse Panels

The Amphenol 125GMT10/nrg125GMT10 and 125GMT15/nrg125GMT15 fuse panels are 125A dual-feed and provide 10/10 and 15/15 GMT fuse positions. Our 125GMT/nrg125GMT panels feature $\pm 12/\pm 24/\pm 48V$ operating voltages to serve both legacy and “next-gen” network applications. Engineered into a standard 1RU footprint that support up to 20A GMT fuses in each position, providing ample capacity for distribution to a broad range of components. The panel is available in standard terminal block outputs or connectorized outputs.



Fig. 1: 125GMT10 Front View



Fig. 2: 125GMT15 Rear View

This platform provides front access to GMT fuses. Also featured are front LED indicators for power/fuse alarms, monitoring status, rear connections for form C relay alarms, and optional nrgSMART® connections.

Depending on the model, each of the 125A feeds provide power for up to 10 or 15 GMT output positions. Field replaceable GMT fuses are available from 18/100A to 20A. The panel supports universal voltages ($\pm 12VDC$ to $\pm 48VDC$).

Primary Benefits

- Universal voltage ($\pm 12VDC$, $\pm 24VDC$ and $\pm 48VDC$) enables standardization on a single part number for multiple voltages
- Up to 20A fuses for distribution to a variety of network elements
- UL and NEBS compliant to ensure industry-standard safety and functional requirements
- Form C relay contacts provide reliable alarm connections
- Integrated designation card holder for simple circuit identification
- Fail alarm LEDs indicate fuse and power failures
- Clear, flame-retardant polycarbonate cover (94V-0) protects input and output power connections and wiring from damage
- Horizontal feed inputs and a choice of outputs: either staggered terminal blocks that facilitate waterfall cable management, or connectors that speed up installation and allow cables to exit straight back from the panel
- Optional Individual Circuit Monitoring provides high accuracy, 100% passive monitoring
- Collect voltage and current for both feed and output circuit
- Collect temperature using optional nrgTEMP probes

Applications

- Wireless
- Central office
- Co-location
- Remote sites
- Secondary distribution



Fig. 3: 125GMT15-C Rear View

Ordering Information

GMT Fuse Panel:	Part Number:
125A Dual-Feed, 10/10 Panel, Horizontal Inputs, Output Terminal Blocks	125GMT10
125A Dual-Feed, 10/10 Panel, Horizontal Inputs, Connectorized Outputs (Connectors purchased separately)	125GMT10-C
125A Dual-Feed, 15/15 Panel, Horizontal Inputs, Output Terminal Blocks	125GMT15
125A Dual-Feed, 15/15 Panel, Horizontal Inputs, Connectorized Outputs (Connectors purchased separately)	125GMT15-C
nrgSMART® Circuit Monitoring, Controller, 125A Dual-Feed, 10/10 Panel, Horizontal Inputs, Output Terminal Blocks	nrg125GMT10-CTRL
nrgSMART Circuit Monitoring, Sensor, 125A Dual-Feed, 10/10 Panel, Horizontal Inputs, Output Terminal Blocks	nrg125GMT10-SENS
nrgSMART Circuit Monitoring, Controller, 125A Dual-Feed, 10/10 Panel, Horizontal Inputs, Connectorized Outputs (Connectors purchased separately)	nrg125GMT10-CTRL-C
nrgSMART Circuit Monitoring, Sensor, 125A Dual-Feed, 10/10 Panel, Horizontal Inputs, Connectorized Outputs (Connectors purchased separately)	nrg125GMT10-SENS-C
nrgSMART Circuit Monitoring, Controller, 125A Dual-Feed, 15/15 Panel, Horizontal Inputs, Output Terminal Blocks	nrg125GMT15-CTRL
nrgSMART Circuit Monitoring, Sensor, 125A Dual-Feed, 15/15 Panel, Horizontal Inputs, Output Terminal Blocks	nrg125GMT15-SENS
nrgSMART Circuit Monitoring, Controller, 125A Dual-Feed, 15/15 Panel, Horizontal Inputs, Connectorized Outputs (Connectors purchased separately)	nrg125GMT15-CTRL-C
nrgSMART Circuit Monitoring, Sensor, 125A Dual-Feed, 15/15 Panel, Horizontal Inputs, Connectorized Outputs (Connectors purchased separately)	nrg125GMT15-SENS-C
Accessories (Purchased Separately):	Part Number:
Tie Bar Kit: Connectorized, Rear Mount Tie Bar, Mounting Hardware	307653
nrgSMART Temperature Sensor, ACC, 6ft	nrgTemp
Replacement Components:	Part Number:
Replaceable Alarm Card	307608
Replaceable Alarm Card, nrgSMART	307710
Replaceable Controller Card, nrgSMART	400822
Replaceable Sensor Card, nrgSMART	307607
Dummy GMT fuse	132748
19" Mounting Bracket Kit: 2x 19" Brackets, Mounting Hardware	PMTG19
23" Mounting Bracket Kit: 2x 23" Brackets, Mounting Hardware	PMTG23

Connectors (Purchased Separately):	Part Number:
P24 Connector Kit: GMT, 12-10 AWG, Plug, Retainer, 2x Contacts	150336
P24 Connector Kit: GMT, 14-12 AWG, Plug, Retainer, 2x Contacts	150342
P24 Connector Kit: GMT, 16-14 AWG, Plug, Retainer, 2x Contacts	152029
P24 Connector Kit: GMT, 20-18 AWG, Plug, Retainer, 2x Contacts	152030
P24 Connector 5 Pack: GMT, 12-10 AWG, Set of 5 Plug Kits	150336-5
P24 Connector 5 Pack: GMT, 14-12 AWG, Set of 5 Plug Kits	150342-5
P24 Replaceable Contact: GMT, 12-10 AWG, Single Contact	150343
P24 Replaceable Contact: GMT, 14-12 AWG, Single Contact	150344
Crimp Tool: 14-6 AWG, Daniels, M300BT	150793
Crimp Tool Locator: Universal, Daniels, UH2-5	150794
GMT Fuses:	Part Number:
18/100A	130781
1/4A	100151
1/2A	004001
3/4A	004008
1A	100991
1-1/3A	004006
1-1/2A	004011
2A	004002
2-1/2A	130783
3A	004012
3-1/2A	130782
4A	004013
5A	004014
7-1/2A	004010
10A	004015
12A	102287
15A	102288
20A	127240
20A with cover	131340



Fig. 4: 125GMT10-CTRL

Specifications

Inputs:		Specifications:
Voltage range (nominal voltage)		±12VDC, ±24VDC and ±48VDC
Max. input load rating		Standard Versions: 125A @ 65°C per panel Connectorized Versions: 125A @ 55°C per panel (De-rated to 100A @ 65°C)
Short circuit withstand rating		5000A
Nominal power loss at full load		Less than 45W per side @5,000W full load per side (125A x 48V); 125A @ 65°C per panel
Percentage of full power dissipation at nominal voltage		Less than 0.5%
Max. input interrupt device		125% of panel rating (for 125A rated feeds)
Horizontal input terminal studs (with Keps nuts and flat washers) for dual-hole compression lugs		Two pairs of ¼-20 studs on 5/8" centers per terminal [max. lug width of .5" (12.7 mm)]. Torque bolts (using 7/16" or 12 mm socket) to 50 in/lb. (5.5 N•m), max.
Input wire size		#8 AWG to #1/0 AWG
Grounding:		Specifications:
Earth GND terminal bolts (with spring washers and flat washers) for dual-hole compression lug		Three sets of ¼-20 threaded holes on 5/8" centers. [max. lug width of .5" (12.7 mm)]. Torque bolts (using 7/16" or 12 mm socket) to 50 in/lb. (5.5 N•m), max.
Ground wire size		#6 AWG to #1 AWG
Outputs:		Specifications:
Output fuse		20A GMT Fuse
Output load		14A continuous GMT fuse
Minimum short circuit interrupt rating		5000A
Optional (Standard Versions): Terminal blocks, single-hole compression lugs		20 or 30, #6-32 screws [max. lug width of .31" (7.9)]. Torque screw to 8 in/lb. (.9 N•m), max.
Optional (Standard Versions): Output wire size, single-hole compression lug		#22 AWG to #6 AWG
Optional (-C Versions): Connectors (purchased separately)		20 or 30, P24 connector plugs, latching, safe touch
Optional (-C Versions): Output wire size, connectors		#20 AWG to #10 AWG
GMT fuses		Cooper Bussmann and Littelfuse
Alarms:		Specifications:
Alarm relay contacts		2A @ 30 VDC; 0.6A @ 60 VDC
Max. alarm card power rating		@12V: 18mA (0.22W) @24V: 20mA (0.48W); @48V: 30mA (1.44W)
Alarm wire size		#24 AWG, typical (#26 to #20 AWG)
Terminals		Wire wrap or mates with TE Connectivity 3-640428-3
Dimensions:		Specifications:
Standard Versions	Height:	1.75" (44 mm)
	Depth:	13.9" (353 mm)
	Width:	17" (432 mm) without brackets 19" and 23" brackets included with panel
Connectorized Versions	Height:	1.75" (44 mm)
	Depth:	13.8" (350 mm) without tie bar 16.5" (419 mm) with tie bar
	Width:	17" (432 mm) without brackets 19" and 23" brackets included with panel
		Tie bar not included with panel Cable-end connectors not included with panel

Weights:		Specifications:	
125GMT10		11.1 lbs.	
125GMT15		12.0 lbs.	
Compliance:		Specifications:	
UL		Listed	
NEBS		Level 3	
Voltage Sensor (nrgSMART® model only):		Specifications:	
Sensor accuracy		-19.99 to +19.99V: ± 0.3V -20V to -60V: ± 0.1V +20V to +60V: ± 0.1V	
Voltage measurement range		-60 to +60 VDC	
NOTE:			
<ul style="list-style-type: none"> • Voltage measurement may be slightly different than at input terminal blocks due to the voltage drop within the panel. • Sensors are factory calibrated and do not require user adjustment. 			
Current Sensor (nrgSMART model only):		Specifications:	
Precision / accuracy		±5% precision, ±0.25A accuracy Example: 10A current, will measure 10A ± (10A*5%) ± 0.25A = 10A ± 0.5A ± 0.25A = 9.25A to 10.75A	
Communication (nrgSMART model only):		Specifications:	
nrgOS minimum required version		nrgOS 4.1.0	
nrgNET communication protocol		Proprietary serial protocol used to communicate between panels and controller	
nrgNET connector		Removable 5-pin connector with screw down terminals	
nrgNET connector functions		nrgNET IN from the Controller or upstream nrgSMART panel, nrgNET OUT to downstream nrgSMART panel	