

## 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



#### Fig. 1: 125GMT10 Front View

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. 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 (±12VDC, ±24VDC and ±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 industrystandard 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        | 125GMT10-C           |
| (Connectors purchased separately)  | 12561110-6           |
| 125A Dual-Feed, 15/15 Panel, Horizontal Inputs, Output Terminal Blocks       | 125GMT15             |
| 125A Dual-Feed, 15/15 Panel, Horizontal Inputs, Connectorized Outputs        | 125GMT15-C           |
| (Connectors purchased separately)  | 125GMT 15-C          |
| nrgSMART Circuit Monitoring, Controller, 125A Dual-Feed, 10/10 Panel,        | nrg125GMT10-CTRL     |
| Horizontal Inputs, Output Terminal Blocks                                    | IIIg1236MT10-CTRE    |
| nrgSMART Circuit Monitoring, Sensor, 125A Dual-Feed, 10/10 Panel, Horizontal | nrg125GMT10-SENS     |
| Inputs, Output Terminal Blocks   | higizodiii 10-3EN3   |
| nrgSMART Circuit Monitoring, Controller, 125A Dual-Feed, 10/10 Panel,        | nrg125GMT10-CTRL-C   |
| Horizontal Inputs, Connectorized Outputs                                     | higizogwitio-cirke-c |
| (Connectors purchased separately)  |                      |
| nrgSMART Circuit Monitoring, Sensor, 125A Dual-Feed, 10/10 Panel, Horizontal | nrg125GMT10-SENS-C   |
| Inputs, Connectorized Outputs  | IIIg1236MT10-5EN5-C  |
| (Connectors purchased separately)  |                      |
| nrgSMART Circuit Monitoring, Controller, 125A Dual-Feed, 15/15 Panel,        | nrg125GMT15-CTRL     |
| Horizontal Inputs, Output Terminal Blocks                                    |                      |
| nrgSMART Circuit Monitoring, Sensor, 125A Dual-Feed, 15/15 Panel, Horizontal | nrg125GMT15-SENS     |
| Inputs, Output Terminal Blocks   |                      |
| nrgSMART Circuit Monitoring, Controller, 125A Dual-Feed, 15/15 Panel,        | nrg125GMT15-CTRL-C   |
| Horizontal Inputs, Connectorized Outputs                                     |                      |
| (Connectors purchased separately)  |                      |
| nrgSMART Circuit Monitoring, Sensor, 125A Dual-Feed, 15/15 Panel, Horizontal | nrg125GMT15-SENS-C   |
| Inputs, Connectorized Outputs  |                      |
| (Connectors purchased separately)  |                      |
| 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               |
| 20 Mounting Bracket Mit. 2X 20 Brackets, Mounting Hardward                   | 1 111 020            |

| 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       |



## **Specifications**

| Inputs:  | Specifications:  |
|--|--|
| Voltage range (nominal voltage)                              | $\pm 12$ VDC, $\pm 24$ VDC and $\pm 48$ VDC                                      |
| Max. input load rating Standard Versions                     |  |
| Connectorized Versions                                       |  |
| 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);                  |
| Development of full provide disciplation of provided voltage | 125A @ 65°C per panel<br>Less than 0.5%  |
| Percentage of full power dissipation at nominal voltage      |  |
| Max. input interrupt device                                  | 125% of panel rating (for 125A rated feeds)                                      |
| Horizontal input terminal studs (with Keps nuts and fla      |  |
| washers) for dual-hole compression lugs                      | .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                       | .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-       | 20 or 30, #6-32 screws [max. lug width of .31" (7.9)]. Torque screw to           |
| hole compression lugs  | 8 in/lb. (.9 N•m), max.  |
| Optional (Standard Versions): Output wire size, single       | - #22 AWG to #6 AWG  |
| hole compression lug   |  |
| Optional (-C Versions): Connectors (purchased                | 20 or 30, P24 connector plugs, latching, safe touch                              |
| separately)  |  |
| 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 Heigh                                      | t: 1.75" (44 mm)   |
| Depth  |  |
| Width  |  |
|  | 19" and 23" brackets included with panel   |
|  |  |
| Connectorized Versions Heigh                                 | t: 1.75" (44 mm)   |
| Depth  |  |
|  | 16.5" (419 mm) with tie bar  |
| Width  |  |
|  | 19" and 23" brackets included with panel   |
|  |  |
|  | Tie bar 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:  |  |
|  |  |
|  | an at input terminal blocks due to the voltage drop within the panel.  |
|  | · · · · · ·  |
| Voltage measurement may be slightly different th   | · · · · · ·  |
| <ul> <li>Voltage measurement may be slightly different th</li> <li>Sensors are factory calibrated and do not require</li> </ul>  | user adjustment.   |
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