

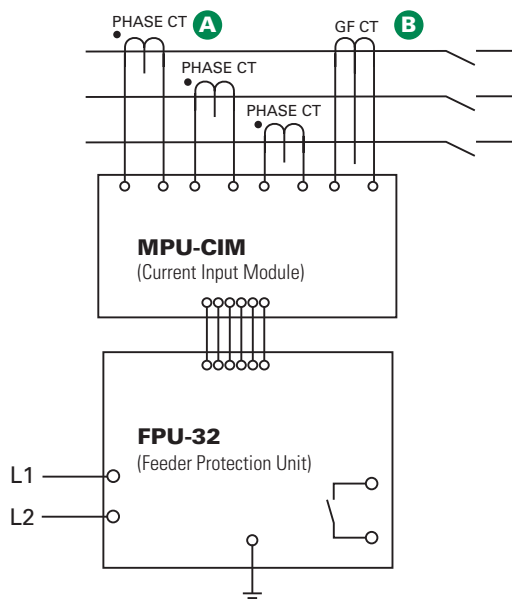
FPU-32 SERIES (PGR-7200)

Feeder Protection Unit



NOTE: The FPU-32 consists of the Feeder Protection Unit (pictured above) and the MPU-CIM Current Input Module (not pictured).

Simplified Circuit Diagram



Ordering Information

| ORDERING NUMBER | COMMUNICATIONS |
|-----------------|----------------------|
| FPU-32-00-00 | TIA-232 |
| FPU-32-01-00 | TIA-232 & RS-485 |
| FPU-32-02-00 | TIA-232 & DeviceNet™ |
| FPU-32-04-00 | TIA-232 & Ethernet |

NOTE: One of the following is required: MPU-CIM-00-00 Current Input Module, or MPU-CTI-RT-00 Current Input Module with ring-tongue terminals.

| ACCESSORIES | REQUIREMENT |
|------------------|-------------|
| Phase CTs | Recommended |
| Ground-Fault CT | Optional |
| MPU-16A-Y92A-96N | Optional |

Description

The FPU-32 Feeder Protection Unit provides integrated protection, metering, and data-logging functions. It is an excellent choice for retrofitting and upgrading older relays because of its compact size and ability to use existing CTs. The FPU-32 is used to protect distribution feeders in processing, manufacturing, petroleum, chemical, and wastewater treatment facilities.

Features & Benefits

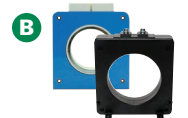
| FEATURES | BENEFITS |
|---|--|
| IEC & IEEE overcurrent protection curves | Definite and inverse time settings for system coordination; prevents catastrophic failures |
| Two setpoint groups | Create distinctive settings for maintenance or for two different loads |
| Reduced overcurrent mode | Maintenance mode setting to reduce the risk of arc-flash hazards |
| Data logging | On-board 100-event recorder and remote data logging helps with system diagnostics |
| Overload | Thermal protection for connected load |
| Phase loss/Phase reverse (current) | Detects unhealthy supply conditions |
| Unbalance (current) | Prevents overheating due to unbalanced phases |
| Communications | Remotely view measured values, event records & reset trips |

Accessories



Phase Current Transformers

Phase CTs are required to detect phase currents.



Ground-Fault Transformer

Zero-sequence current transformer detects ground-fault current. Available with 5-A and 30-A primary ratings for low-level pickup.

Specifications

| | | |
|---|---|------------------------------------|
| Protective Functions (IEEE Device Numbers) | Overload (49, 51) | Definite-time overcurrent (50, 51) |
| | Phase sequence (46) | Inverse-time overcurrent (50, 51) |
| | Unbalance (46) | Ground fault (50G/N, 51G/N) |
| | Phase loss (46) | RTD/PTC temperature (49) |
| Input Voltage | 65-265 Vac, 30 VA; 80-275 Vdc, 25 W | |
| Power-Up Time | 800 ms at 120 vac | |
| Ride-Through Time | 100 ms minimum | |
| 24-Vdc Source | 400 mA maximum | |
| AC Measurements | True RMS and DFT, Peak 32 samples/cycle and positive and negative sequence of fundamental | |
| | 50, 60 Hz | |
| Frequency | Three Form C | |
| Output Contacts | CSA certified, CE, C-Tick (Australian), UL Recognized | |
| Approvals | TIA-232 (standard); TIA-485, DeviceNet™, Ethernet (optional) | |
| Communications | 4-20 mA, programmable | |
| Analog Output | Standard feature | |
| Conformally Coated | 10 years | |
| Warranty | Panel (standard) | |
| Mounting (Control Unit) | Surface (with MPU-32-SMK converter kit) | |
| (Current Input Module) | DIN, Surface | |