

GE 750-P5-G5-D5-HI-A20-R

Multilin 750 feeder management relay configuration

Product scope

- Five-ampere phase and ground-current inputs feed feeder protection, metering and fault-location functions.
- Eight 4–20 mA outputs export selected measured or calculated quantities to plant systems.
- Three serial ports support Modbus RTU, with DNP 3.0 available on a configured rear path.

Manufacturer source

GE Vernova Multilin 750/760 legacy product page.

This English web copy combines exact-model specifications with detailed function, system role, operating principle, application scenarios and installation boundaries.

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Email: info@apterpower.com Phone: +86 18106909650 apter.com/inquiry.php	GE 750-P5-G5-D5-HI-A20-R	

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Verified technical specifications

Values below apply to the exact model or nameplate identified on this page; adjacent family variants are not merged.

Phase current input	P5: 5 A phase CT inputs
Ground current input	G5: 5 A zero-sequence input
Ground-current modification	D5: polarized ground-current configuration for 5 A input
Control power	HI: 88 to 300 V DC or 70 to 265 V AC
Analog outputs	A20: eight 4 to 20 mA outputs
Breaker LED	R: red breaker-closed LED
Serial ports	Three
Protocols	Modbus RTU and DNP 3.0; optional Ethernet implementations
Mechanical construction	Drawout relay case
Lifecycle	Manufacturing discontinued; 850 listed as alternative
Front communication	RS-232 serial port
Rear communication	Two RS-485/RS-422 serial ports
Serial baud rate	300 to 19,200 bps
Display	40-character front-panel display
Status indication	20 front-panel LEDs
Time synchronization	IRIG-B input
Event recording	Time-tagged event records
Waveform capture	Configurable oscillography memory
Metering	Current, voltage, sequence components, power and energy
Replacement platform	Multilin 850 via the documented retrofit route

Product function and system role

Exact configuration

GE Multilin 750-P5-G5-D5-HI-A20-R is a drawout feeder management relay configured for 5 A phase and ground CT inputs, high-range control power and eight 4–20 mA outputs. The 750/760 platform is discontinued, with the Multilin 850 identified as the current migration path.

The complete 750-P5-G5-D5-HI-A20-R code defines more than the base relay: P5 and G5 select 5 A phase and zero-sequence inputs, D5 identifies the polarized ground-current arrangement, HI specifies the broad AC/DC auxiliary supply, A20 adds eight analog outputs and R selects the red breaker-closed indication.

Functional role

Protection elements process CT and voltage quantities, operate breaker logic and record disturbances for event analysis and maintenance.

The present order identity combines the P5, G5, D5, HI, A20 and R hardware choices in a legacy SR-family drawout case.

Key operating characteristics

- Five-ampere phase and ground-current inputs feed feeder protection, metering and fault-location functions.
- Eight 4–20 mA outputs export selected measured or calculated quantities to plant systems.
- Three serial ports support Modbus RTU, with DNP 3.0 available on a configured rear path.

Operating principle and application guidance

Working principle

The relay combines feeder overcurrent, ground-fault, voltage, frequency, power and breaker-management functions in a drawout chassis. Metering, time-tagged events, oscillography and serial communication give protection engineers both operating visibility and post-event evidence without separate panel instruments.

For either spare replacement or 850 migration, preserve the settings, logic equations, I/O map, terminal blocks and time-synchronization design.

Application scenarios

- Distribution feeders can use directional and nondirectional overcurrent elements for primary protection and breaker tripping.
- Industrial switchgear can implement bus interlocking, source transfer and load-shedding schemes with relay logic and I/O.
- Protection teams can analyze stored events, fault location and waveform captures after a trip without a separate recorder.

Integration and replacement boundary

GE Vernova states that 750/760 manufacturing is discontinued and points users to the 850 and its retrofit route. Migration still requires a settings conversion and engineering review of CT inputs, trip logic, terminal blocks, communications, analog signals and the exact suffix configuration.

Critical technical check

Do not replace 750-P5-G5-D5-HI-A20-R from the base number alone; archive the live setting file and verify every suffix, CT circuit and trip contact before the drawout relay is removed.

Manufacturer evidence used

- GE Vernova Multilin 750/760 legacy product page.
- Official source: <https://www.gevernova.com/electrification/automation/protection-control-metering/multilin-750760-legacy>
- Official manual: <https://www.gevernova.com/grid-solutions/products/support/750/750frhe60.pdf>

Exact product identity checked: GE 750-P5-G5-D5-HI-A20-R



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