

MiCOM AGILE P14 5TH GENERATION

Feeder Management Relay

The MiCOM Agile P14 5th Generation is an advanced feeder management relay designed to protect overhead lines and underground cables across a wide range of applications. It supports all common system earthing methods—including solidly earthed, impedance-earthed, Petersen coil-earthed, and isolated neutral systems—through flexible configuration options. A single device covers applications ranging from distribution feeder protection and sub-transmission to backup protection for the highest transmission voltage levels.

The relay provides comprehensive protection, control, and monitoring capabilities, including overcurrent and earth fault protection, autoreclosing, and a full suite of ancillary protection functions. Multiple main protection elements are integrated into each relay, enabling standardized ordering, simplified application engineering, and reduced spare parts inventory.

Integrated bay control supports up to two circuit breakers and eight additional controllable switchgear devices through a full-color graphical HMI. Programmable function keys replace conventional control scheme switches, reducing engineering effort, panel wiring, and installation costs.

Optional High-Speed/High-Break output contacts eliminate the risk of contact burnout during normal operation and demanding conditions such as breaker failure or faulty circuit breaker auxiliary contacts. This capability can also eliminate the need for external electromechanical trip relays by transferring high-duty switching requirements directly to MiCOM Agile P14 5th Gen.

The MiCOM Agile P14 is fully compliant with IEC 61850 Edition 2.1 and includes comprehensive testing and simulation capabilities, editable IEC 61850 Logical Device and Logical Node naming, IEEE 1588 PTP time synchronization, SNMP, Parallel Redundancy Protocol (PRP), and High-availability Seamless Redundancy (HSR) communications. A dedicated third engineering port enables secure separation of IT and OT networks, while software-selectable serial communication interfaces simplify integration with both modern and legacy systems.

Key Benefits

- Feeder protection applicable to long/short lines and cables, strong and weak infeeds
- Multi-shot autoreclosure with check synchronism
- Serial and Ethernet concurrent protocols, switchable by settings
- Advanced IEC 61850 Edition 2.1 implementation with device settings via SCL files, top-down engineering ready
- Advanced Cybersecurity including AAA, Radius, RBAC, and Syslog
- Secure Data vault with 5000 events, 100 Fault records and over 1000s of Oscillography
- Fast start up time of less than 10s, resulting in protection, control and communications without the need to wait
- Form, fit and function retrofit for previous MiCOM P14x and P94x generations – wiring loom compatibility
- High reliability in coastal, industrial and polluted environments due to standard (Printed Circuit Board) harsh environmental coating



Protection and Control

- Feeder protection for solid, impedance, Petersen coil earthed and isolated systems
- Load blinder to prevent spurious trips from cascading through the network during extreme conditions, such as impending blackouts.
- 9 stages of advanced load shedding and restoration logic

Advanced Communications

- Redundant communications with zero downtime using optional PRP/HSR protocols
- Dedicated Ethernet port for engineering access by protection engineers/operators - separation of IT and OT networks

Cybersecurity

- Enhanced compliance with NERC/CIP, NISTIR 7628 and EU NIS foundation norms
- Designed with an IEC 62443-4-1 certified Secure Development Lifecycle Process
- Designed and manufactured with certified ISO/IEC 27001 Information Security Management System

One-Box Concept

- Integrated full color display, for single-line diagram control of the protected bay.
- Open, close, local/remote and direct function key access facilitate the control of connected switchgear – circuit breaker plus eight other controllable plant items
- Select-before-operate, breaker health checks and interlocking capabilities



GE VERNOVA

Functional Overview

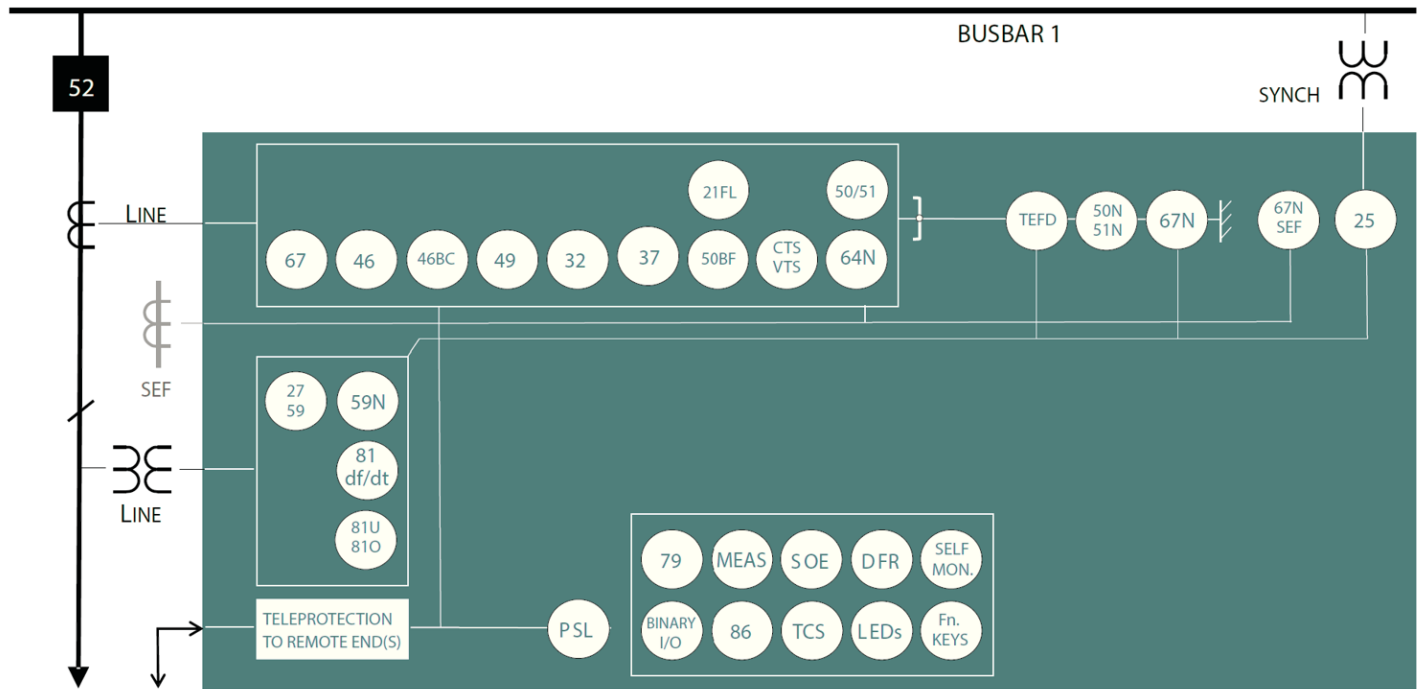


Figure 1: System overview example

ANSI® Device Number & Functions

DEVICE NUMBER	FUNCTION
25	Check Synchronising
27	Phase and Line Undervoltage
32	Directional Power Protection
37	Undercurrent
46	Negative Sequence Overcurrent
49	Thermal Overload
50	Phase Definite Time Overcurrent
51	Phase Inverse-Time Overcurrent
59	Phase and Line Overvoltage
67	Directional Phase Overcurrent

DEVICE NUMBER	FUNCTION
79	Autoreclose/Adaptive Autoreclose
86	Latching/Lockout Contacts
21FL	Fault Locator
46BC	Broken Conductor
50BF	CB Failure
50N	Earth Fault Definite Time Overcurrent
51N	Neutral/Ground IDMT Overcurrent
59N	Neutral Voltage Displacement
64N	Restricted Earth Fault
67N	Directional Neutral/Ground Overcurrent

DEVICE NUMBER	FUNCTION
81df/dt	Rate of Change of Frequency
81O	Overfrequency
81U	Underfrequency
CTS	CT Supervision
PSL	Programmable Logic
SEF	Sensitive Earth Fault
TEFD	Transient Earth Fault Detection
TCS	Trip Circuite Supervision
VTS	VT Supervision

Note: 25 (check synchronising) and 79 (autoreclose) require the Advanced Feeder model to be ordered.

Applications

The first application shows a parallel transformer protection where the relay replaces many of the discrete protection elements normally associated with the LV side of the transformer. The protection includes non-directional and directional phase overcurrent and earth fault, restricted earth fault and circuit-breaker failure protection. The second application shows the MiCOM Agile P14 5th Gen protecting a plain feeder using phase overcurrent, sensitive earth fault, negative-sequence overcurrent, thermal, and breaker failure protection. The integrated autorecloser with check synchronizing can be configured to coordinate with downstream reclosers.

The configuration column of the menu is used to control which functions the user requires in the intended application, and which may be disabled.

Disabled functions are completely removed from the menu to reduce configuration effort. Intelligent dependencies between settings further supervise visibility, serving to declutter and accelerate the configuration experience.

Workable default settings reduce touch time, training needs, and the risk of error when applying a relay.

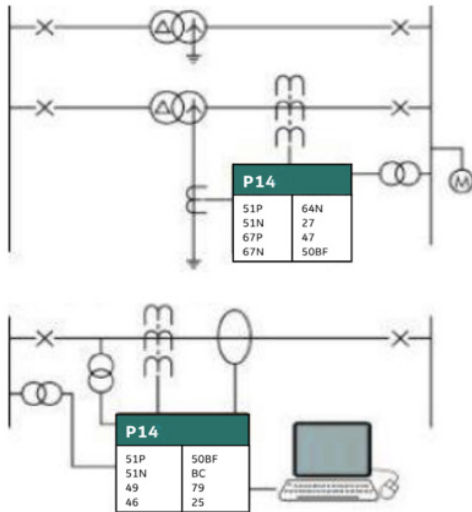


Figure 2: Typical applications of P14

Phase Overcurrent

Six stages of phase overcurrent protection are provided, each selectable as non-directional or directional (forward/reverse). In addition to definite time and predefined IDMT curve selection, the MiCOM Agile P14 5th Gen supports user programmable curves for customized operation and resetting. The profile can be chosen to optimize the protection, without constraining loadability. If a standard curve is not suitable for the application, the user can program and upload a custom variant.

The IDMT stages have a programmable reset timer for grading with electro-mechanical relays, to reduce autoreclose dead times and to reduce clearance times where intermittent faults occur.

A synchronous polarizing signal is maintained after voltage collapse to ensure that the instantaneous and time delayed overcurrent elements operate correctly for close-up 3-phase faults.

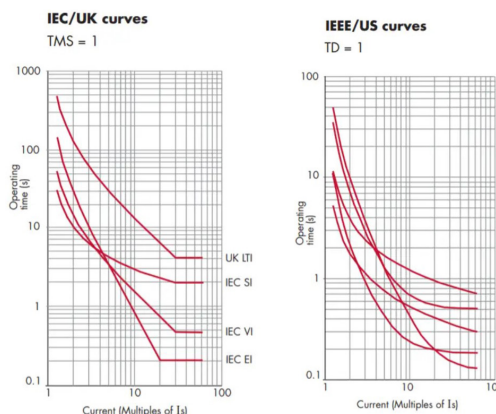


Figure 3: Standard IDMT curve types

Load Encroachment

Load encroachment (load blinder); an impedance-based feature avoids tripping for heavy load flows.

Cold Load Pick-up

Cold load pick-up temporarily raises the overcurrent settings following closure of the circuit-breaker, allowing the protection settings to be set closer to the load profile.

Voltage-Dependent Overcurrent

Voltage-dependent protection boosts sensitivity, and reduces tripping times for faults on weaker systems, such as those with a high prevalence of distributed generation. The timing characteristics can be set as either definitive time or IDMT.

Standard Earth Fault

There are two standard earth fault elements, each with four independent stages. Each element can operate either from measured quantities - earth fault current which is directly measured using a separate CT input (typically from a residual connection of the three-line CTs), or from a residual current that is derived internally from the summation of the 3-phase currents.

All earth fault elements have the same directionality and IDMT characteristics as the phase overcurrent. Both earth fault elements may be enabled at the same time providing directional earth fault protection and back-up standby earth fault protection in the same device. The directionality of the earth fault elements is provided by either residual voltage or negative sequence voltage.

Sensitive Earth Fault

Sensitive earth fault (SEF) with 0.5% x I_n sensitivity is provided. A core balance CT should be used to drive this function. The directionality of the sensitive earth fault element is provided by the residual voltage.

Transient Earth Fault

MiCOM P14 incorporates novel transient earth fault detection (TEFD) for Petersen coil earthed and isolated systems, implemented as a software function block, with no need to add unreliable analog hardware or analog processing boards. This approach achieves the most cost-effective functional integration and protection scheme engineering.

Wattmetric and Neutral Admittance Protection

As an alternative to the directional earth fault characteristic, a directional I_{cos} characteristic can be used for Petersen coil earth fault protection using the sensitive earth fault input. Neutral admittance protection offers both conductance and susceptance operation modes.

Negative Sequence Overcurrent

Negative sequence overcurrent protection can be set as either non-directional or directional (forward/reverse) and can operate for remote phase-phase and phase earth faults even with delta-star transformers present.

2nd Harmonic Blocking

The 2nd harmonic block detects high inrush current inflows that occur when transformers or machines are connected. The function can block the phase overcurrent, earth fault, sensitive earth fault and negative sequence overcurrent.

Economical Busbar Protection

Each stage of overcurrent and earth fault protection can be blocked by an optically isolated input or GOOSE signal. This enables overcurrent and earth fault protection to integrate into a blocked overcurrent busbar protection scheme.

Restricted Earth Fault

Restricted earth fault (REF) provides protection for transformer faults, avoiding the need to install a separate discrete relay. It can operate in high or low impedance differential mode.

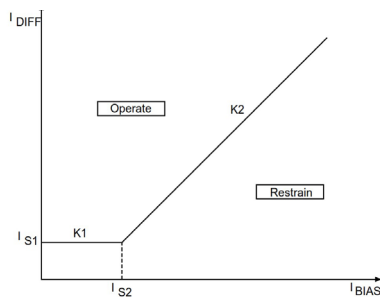


Figure 4: REF biased differential characteristics

Broken Conductor

The broken conductor protection detects unbalanced conditions caused by broken conductors, or maloperation of a single phase of switchgear. It operates on the ratio of I_2 to I_1 .

Thermal Overload

A single time constant characteristic as per IEC60255-8 is provided to protect cables, dry type transformers and capacitor banks. An additional dual time constant characteristic is suitable to protect in-zone oil-filled transformers, serving to protect the winding insulation from ageing and to decrease gas production by overheated oil.

Voltage and Rate of Change of Voltage

Under/overvoltage protection may be configured to operate from either phase-phase or phase-neutral quantities. Four independent stages are provided, with a mix of definite time and inverse-time characteristics. Two stages of change rate of voltage protection elements are also available.

Sensitive overvoltage extends the device's capability to mimic the buswire supervision function in a high impedance busbar protection scheme. The P14 device can detect open circuit scenarios in the buswiring. This enables the P14 to be used as a cost and space-efficient one box solution for both high impedance busbar protection and buswire supervision.

Residual Overvoltage (Neutral Voltage Displacement)

Residual overvoltage protection is available for detecting earth faults in high impedance earthed or isolated systems. Four independent measuring elements with definite time characteristics are available, and one of the elements can also be configured to have an inverse characteristic.

The neutral voltage is normally derived from the 3-phase voltage inputs. Alternatively, if the Advanced Feeder variant is ordered, the residual voltage may be measured from an open delta VT by reassigning the Check Synchronism VT input. In this case a measurement class VT should be connected to the input.

Negative Sequence Overvoltage

Where an incoming feeder is supplying rotating plant equipment such as an induction motor, correct phasing and balance of the supply is essential. The negative sequence overvoltage function is used to perform this task.

Frequency Protection

Provides nine stages each of overfrequency, underfrequency, rate of change of frequency, frequency supervised rate of change of frequency, or average rate of change of frequency functions. The wide range of setting options permits application of any frequency-based load shedding or islanding scheme.

Power Protection

The relay provides two stages of power protection, each of which can be independently configured for overpower or underpower operation in either the forward or reverse direction. It includes both standard three-phase and single-phase power protection elements.

Two stages of sensitive power protection are also available and can be independently configured for reverse power, overpower, low forward power, or disabled to suit the operating conditions.

Supervisory Functions

VT Supervision (Fuse Fail)

Voltage transformer supervision is provided to detect loss of one, two or three VT signals for line VTs.

CT inputs – Safety and Supervision

Current transformer supervision is provided to detect loss of phase CT signals and inhibit the operation of current dependent protection elements.

All CT inputs are dual-rated at 1 A and 5 A to simplify ordering and strategic spares inventories. The terminal block features integral shorting to prevent dangerous voltages being present should the block be removed. This affords additional safety to personnel who may be working near live apparatus.

Circuit Breaker Failure

Two-stage, phase-segregated circuit-breaker failure protection may be used for tripping upstream circuit-breakers and for re-tripping the local circuit-breaker if required. The undercurrent elements used in the CB fail reset mechanism detect the breaker opening in real-time, even when there are subsidence currents in the CT secondary caused by the remnant flux.

Control

User Interface

Ten function keys in 60 and 80TE case sizes operate in two modes, normal and toggled, with integrated tricolor programmable LEDs. These replace traditional hardwired control scheme switches and annunciation, saving on engineering time and wiring costs. Thirteen further tricolor LEDs are available, freely configurable, in addition to five fixed-function LEDs

In addition to support of English, French, German, Spanish, Chinese, Russian, Italian, Portuguese and Polish languages, the ability to customize the menu text and alarm descriptions is available. Easily switch between English and an additional language on the local display without uploading new firmware.

A USB front port offers ready access by field personnel laptop computers.

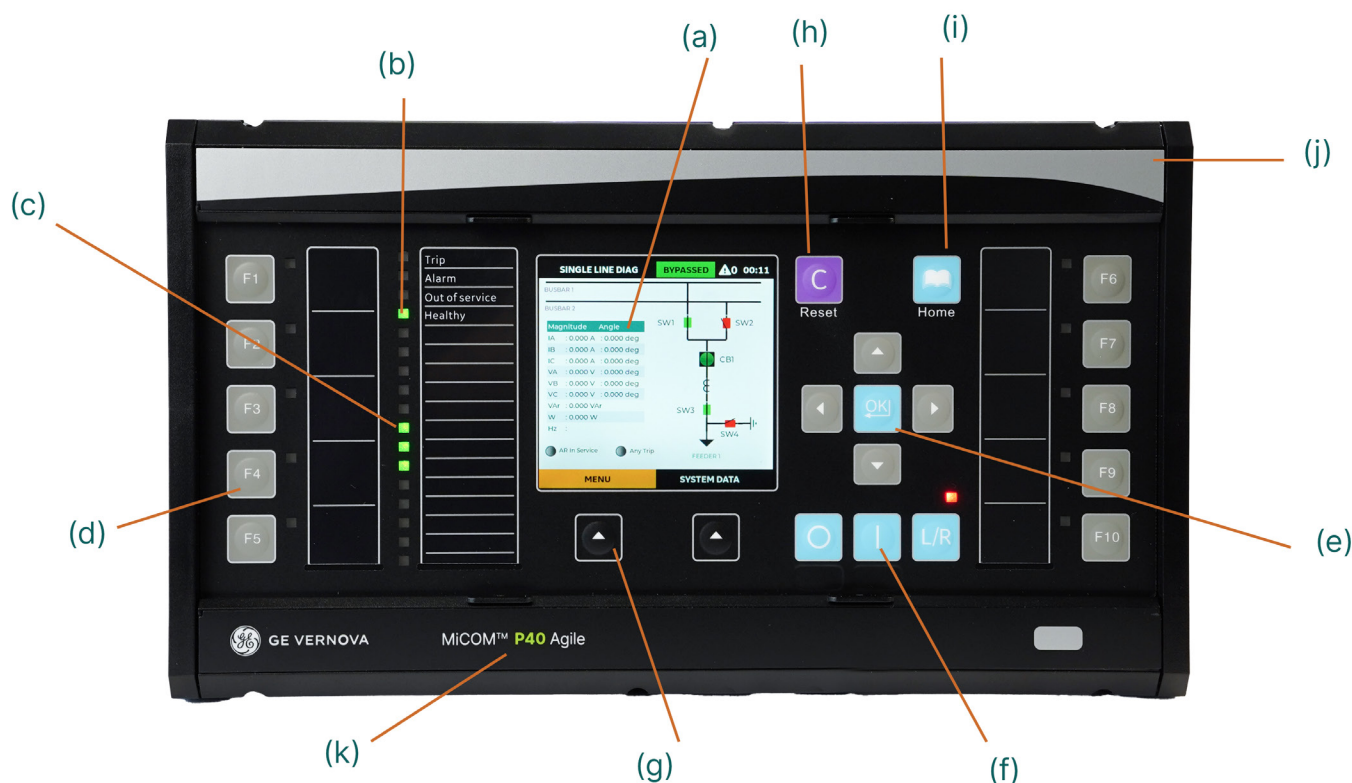


Figure 5: Front fascia view

- a) Color Screen
- b) Four Fixed-Function LEDs
- c) 13 Tricolor Programmable LEDs
- d) Ten Function Keys with Tricolor LEDs
- e) Menu Navigation and Data Entry
- f) Bay Control and Local/Remote with LED
- g) Context-Sensitive Keys
- h) Clear Key – Long Press to Reset
- i) Read Key – Long Press to Return to Home Screen
- j) Top Flap Conceals CORTEC and Rating Labels
- k) Bottom Flap Conceals USB(B) Access Port

One-Box Switchgear Control

Circuit-breaker control is available from the front panel user interface, optically isolated inputs and remotely via the substation communications. 8 sets of switch control logic, LN XSWI for controlling/monitoring of disconnectors and earth switches are also available.

Operation of the bay is greatly assisted using the color graphical HMI, open/close buttons and local/remote control mode switching.

Autoreclose and Check Synchronism (Advanced Feeder model only)

The user may select a single, two, three, or four shot autoreclose cycle. The associated check synchronizing feature has predictive close control, to ensure that the CB contacts touch at the instant of synchronism, lowering the stress on plant assets when paralleling.

Advanced features include live line working and sequence coordination (co-ordination with downstream reclosing equipment or logic to implement fuse-saving or fuse-sacrificing schemes).

Programmable Scheme Logic (PSL)

Powerful graphical logic allows the user to customize the protection and control functions (see Figure 6). The logic includes 32 timers, 32 counters, 512 gates (OR, AND, MAJORITY) and set/reset latch functions, with the ability to invert the inputs and outputs and provide feedback. Each gate can support a large array of inputs, with a simple right-click of inputs or outputs serving to invert the signal. Output contacts have optional latching (lockout) functionality.

The PSL can be used to implement trip circuit supervision or implement complex logic such as frequency restoration schemes. Schemes are developed capable of supervising the trip coil and circuit with the circuit breaker open or closed, achieving full 'H7' performance.

MiCOM Agile is deterministic – intensive logic and multiple nested gates do not affect the speed of protection tripping, I/O processing, measured or sampled values acquisition nor GOOSE response. The logic gates are processed concurrently, such that logic 'race' scenarios are eliminated.

All aspects of MiCOM P40 IED configuration are managed using the S1 Agile software (see Figure 7). The software is license-free, and able to support .scl top-down engineering, interfacing with .xrio and CAPE simulation environments, and easy Excel import/export where required.

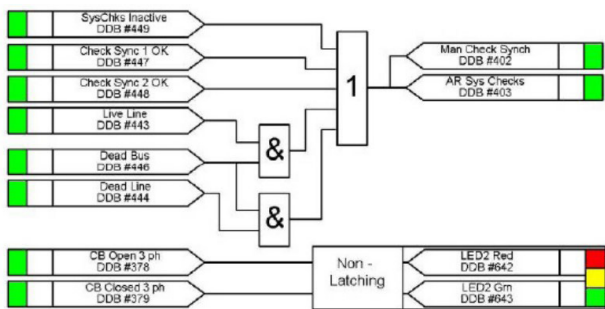


Figure 6: Programmable Scheme Logic



Figure 7: S1 Agile: a powerful and intuitive PC-toolsuite

Binary Inputs and Outputs

Opto-isolated binary inputs comply to the ESI 48-4 EB2 standard and are immune to inductive fields created in substations where wiring runs for hundreds of meters in the yard and neighboring wires, busbars and power conductors create strong fields. The inputs support programmable pickup with no spurious pickup during battery ground faults or capacitive discharges, thereby making them perfect for plant status monitoring.

Each output relay module provides normally open (form A) and a generous mix of changeover (form C) contacts. Optional high-speed/high-break contacts are available, with 30A high break rupturing ensuring no burn-out of contacts during normal operations or situations such as breaker failure or defective CB auxiliary contacts.

Measurement and Recording

All event, fault and disturbance records are time tagged to a resolution of 1 ms. IEEE 1588, NTP or an optional IRIG-B port are available for accurate time synchronization.

Power System Measurements

Instantaneous and time integrated voltage, current and power measurements are provided. These may be viewed in primary, or secondary values.

Post-Fault Analysis

Fault Location

A fault location algorithm provides distance to fault in miles, kilometers, ohms or percentage of the line length. The innovative algorithm employed tolerates prefault loading and fault arc resistance.

Event Records (SOE)

Up to 5000 time-tagged event records can be stored.

Fault Records

The last 100 fault records are stored as minimum.

Disturbance Records

The oscillography has 16 analog channels, 128 digitals and 1 time channel, all at a high resolution of 48 samples/ cycle. With 1050s of recording capability, 100 waveforms of maximum duration of up to 10.5 second duration can be stored.

Plant Supervision

Circuit-Breaker Condition Monitoring

- Monitors the number of breaker trip operations
- Records the sum of broken current quantity (wear, interruption duty)
- $\sum |x|, 1.0 \leq x \leq 2.0$
- Monitors the breaker operating time

Trip Circuit Supervision

Supervision of the trip circuit in both circuit-breaker open and closed states can be realized using the optically isolated inputs and programmable scheme logic. MiCOM Agile P14 claims full compliance with the benchmark H7 supervision scheme.

Communications with Remote Operators and Substation Automation

The following protocols are available:

- Courier/K-Bus
- IEC 60870-5-103
- DNP 3.0 (EAI-485 serial)
- IEC 61850 Edition 2.1 station bus
- IEEE 1588 precision-time protocol
- SNTP time synchronization
- IRIG-B time synch, modulated or demodulated
- RSTP, or PRP and HSR as per IEC 62439-3
- SNMP v2c and v3
- USB front-port communication

P14 devices can be enhanced with an optional redundant Ethernet board. The redundancy is managed by the market's fastest recovery time protocols: IEC 62439-3 PRP and HSR allowing bumpless redundancy and RSTP, offering multi-vendor interoperability.

The Ethernet boards include a dedicated RJ45 engineering port, typically for engineering access by protection engineers/operators when the main Ethernet ports are reserved for SCADA traffic.

To help smooth transition from the existing protocol to IEC 61850, the P14 relay has been designed to provide Courier, -103 or DNP3 on the RS485 port, whilst providing concurrent IEC 61850 or DNP3 on the Ethernet port(s). This concurrent support allows customers to future-proof their investment, getting ready for any future SCADA/DCS upgrade.

Asset Life Extension

In addition to new-build, GE Vernova's 5th generation MiCOM relays can be used to refurbish time-served protection schemes. As the P14 is pin-pin compatible with forerunner P141, P142, P143 and P145 relays from Alstom, AREVA and GE, they can be interchanged in minutes for an easy upgrade. This dramatically reduces the retrofit time and cost.

Quality Built-In (QBi)

Parts stress analysis in R&D, rigorous component supplier selection, and a shipping carton compliant with ISTA protection requirements all are examples of best practice to increase long-life reliability. All circuit boards have harsh environmental coating to resist moisture, salt, corrosive atmosphere and industrial ambient pollution – as standard. The relay case offers full encapsulation, with no ventilation holes for dust ingress.

Circuit board production uses in-circuit tests, boundary scanning, built-in self-test, automated optical inspection, and X-ray scanning to achieve maximum test coverage.

GE Vernova-branded MiCOM P40 relays have no resident battery,

to ease airfreight logistics and dispense with a maintenance item.

In addition to the standard -25°C to +55°C operating temperatures claim as per IEC 60255-6, the P40 range has proven withstand capability at extremes of temperature as per IEC 60068-2. These onerous tests were passed at -40°C and +85°C for 96 continuous hours in each case.

All MiCOM models offer power-up diagnostics and continuous self-monitoring for high availability.

Environmental Responsibility

The Relays are manufactured in a lead-free soldering process using lead-free components. Power dissipation is low, for smaller station batteries and to reduce the global warming potential (GWP) during the installed life.

Case Parameters

CASE TYPES	40 TE / 60 TE / 80 TE
Weight (40TE case)	7 kg - 8 kg*
Weight (60TE case)	9kg - 12 kg*
Weight (80TE case)	13 kg - 16 kg*
Dimension in (40TE case)	W: 206.0 mm H: 177.0 mm D: 243.1 mm
Dimension in (60TE case)	W: 309.6 mm H: 177.0 mm D: 243.1 mm
Dimension in (80TE case)	W: 413.2 mm H: 177.0 mm D: 243.1 mm
Mounting	Panel, rack or retrofit

* Depending on chosen options

Cybersecurity

The sophistication of protection schemes, coupled with the advancement of technology, increasingly leads to devices and substations being networked. This introduces a potential security risk, exposing the grid vulnerable to cyber-attack. To secure communication within such environments, MiCOM Agile P14 offers NERC®-compliant cyber security.

All of GE Vernova's MiCOM range is manufactured in ISO 27001 certified factories.

MiCom Track Record	
470,000	MiCOM P40 Relays shipped from GE Vernova's plants
170,000	Feeder manager and line terminal relays shipped
150,000	Transmission line protection devices shipped
65,000	Busbar protection devices shipped
50,000	Transformer protection devices shipped

CORTEC Order Code Matrix										1-3	4	5	6	7	8	9	#	#	12-1	#	#	
Feeder Management Relay										P14	3									AC		
Feeder Management Relay with optional autoreclose & synchronising																						
Nominal Auxiliary Supply Voltage																						
24-54 Vdc											7											
48-125 Vdc (40-100 Vac)											8											
110-250 Vdc (100-240 Vac)											9											
CT and VT Ratings																						
In = 1/5A, Vn = 100 - 120Vac											1											
Hardware Options																						
Standard - 1 x RS485 rear serial communications port provided with all ordering options (Courier, -103, DNP3 ready)											1											
With additional IRIG-B (Modulated)											2											
With additional IRIG-B (Modulated) & Serial Fibre Optic comms											4											
Single Ethernet 1 LC Duplex port + Universal IRIG-B + 1588 + 1 RJ45 Maintenance Port											U											
Redundant Ethernet PRP/HSR/RSTP/Failover 2 LC Duplex port + IEC870-103 Serial Fibre ST ports + Universal IRIG-B + 1588 + 1 RJ45 Maintenance Port											V											
Redundant Ethernet PRP/HSR/RSTP/Failover 2 RJ45 + Universal IRIG-B + 1588 + 1 RJ45 Maintenance Port											W											
Redundant Ethernet PRP/HSR/RSTP/Failover 2 LC Duplex ports + Universal IRIG-B + 1588 + 1 RJ45 Maintenance Port											Y											
Input/Output Options																						
8 inputs, 7 outputs											A											
8 Inputs, 8 outputs											B											
8 inputs, 14 outputs											C											
12 inputs, 11 outputs											D											
12 inputs, 12 outputs											E											
16 inputs, 7 outputs											F											
16 inputs, 14 outputs											G											
16 inputs, 16 outputs											H											
16 inputs, 16 outputs + 4 High-Speed High-Break											J											
16 inputs, 21 outputs											K											
16 inputs, 24 outputs											L											
16 inputs, 30 outputs + 4 High-Speed High-Break											O											
20 inputs, 20 outputs											P											
24 inputs, 14 outputs											R											
24 inputs, 16 outputs											S											
24 inputs, 16 outputs + 4 High-Speed High-Break											T											
24 inputs, 24 outputs											U											
24 inputs, 32 outputs											V											
28 inputs, 43 outputs											Y											
32 inputs, 14 outputs											Z											
32 inputs, 24 outputs											1											
32 inputs, 32 outputs											2											
40 inputs, 24 outputs											4											
40 inputs, 32 outputs											5											
48 inputs, 16 outputs											7											
Product Specific Options																						
Standard Version											A											
Case Size and Mounting																						
40TE Case - Flush/Panel Mounting with Harsh Env. Coating, with USB Port, without Function Keys											U											
60TE Case - Flush/Panel Mounting with Harsh Env. Coating, with USB Port and 10 Function Keys											V											
80TE Case - Flush/Panel Mounting with Harsh Env. Coating, with USB Port and 10 Function Keys											S											
80TE Case - 19" Rack Mounting with Harsh Env. Coating, with USB Port and 10 Function Keys											T											
Product Features																						
Basic Feeder											A											
Advanced feeder (Auto reclose and Check Sync)											B											
Software Version																						
Enhanced cybersecurity, concurrent protocols, 5000 events, 100 fault records, 1050s oscillography																		AC				
Customer- Specific Additions																						
Standard Version																			0			
Customer-specific configuration/options																			A			
Hardware Version																						
5th Generation Hardware, Graphical Colour HMI with High Performance Processing																					Q	

For more information
visit gevernova.com/grid-solutions

©2026 GE Grid Solutions, LLC, a GE Vernova company, and/or affiliates. All rights reserved.
GE is a trademark of General Electric Company and is used under trademark license. GE, the
GE monogram, GridBeats, Multilin, FlexLogic, and EnerVista are trademarks of GE Vernova.
GE Vernova reserves the right to make changes to specifications of products described at
any time without notice and without obligation to notify any person of such changes.



GE VERNOVA