

1C31194G01

Ovation 1 kHz Valve Positioner EMOD Assembly

Product identification

Emerson 1C31194G01 is an Ovation valve-positioner electronics module for one electro-hydraulic servo-valve actuator.

It supplies 1 kHz LVDT excitation, receives position feedback, and works with a selected 1C31197 personality module that establishes the supported servo-coil arrangement.

Match the electronics module, personality-module group, LVDT phasing, servo-coil load, interface wiring, and approved calibration before commissioning.

Product identity

Manufacturer	Emerson
Part number	1C31194G01
Product family	Ovation I/O
Product type	Valve-positioner electronics module
Controlled device	One electro-hydraulic servo-valve actuator
Ovation generation	Version 3.4 and earlier

Technical information

LVDT excitation	17 V AC peak-to-peak, +/-11%
Excitation frequency	1.0 kHz, +/-10%
Maximum LVDT feedback	25 V AC peak-to-peak
Feedback input impedance	20 kOhm floating differential; 10 kOhm with one line common
Minimum load impedance	500 Ohm
Servo-output accuracy	0.4% of full scale
Maximum drift	0.5% per year
Field isolation	1000 V DC

Feedback and servo coils

- The module supplies 17 V AC peak-to-peak LVDT excitation at a nominal 1.0 kHz.
- Maximum documented LVDT feedback is 25 V AC peak-to-peak.
- Personality modules 1C31197G01 through G04 select the supported servo-coil arrangements.

Service interfaces

- The remote service interface is RS-485 SLIM at 9600 baud with +/-1000 V isolation.
- The local service interface is RS-232 at 19200 baud.
- Field-side circuits have 1000 V DC isolation from the logic-side circuits.

Replacement controls

- Keep the G01 legacy variant within the documented Ovation 3.4-and-earlier hardware generation.
- Verify personality-module number, servo-coil impedance, LVDT wiring, and actuator travel before tuning.
- Do not substitute the later G03 variant until the installed-system generation and engineering changes are approved.

Request a quotation
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Product reference
1C31194G01
Ovation 1 kHz Valve Positioner EMOD
Assembly



Manufacturer source

https://www.emerson.com/is/content/emerson/en/corporate/shared-assets/documents/pws_002864-ovation-io-overview.pdf