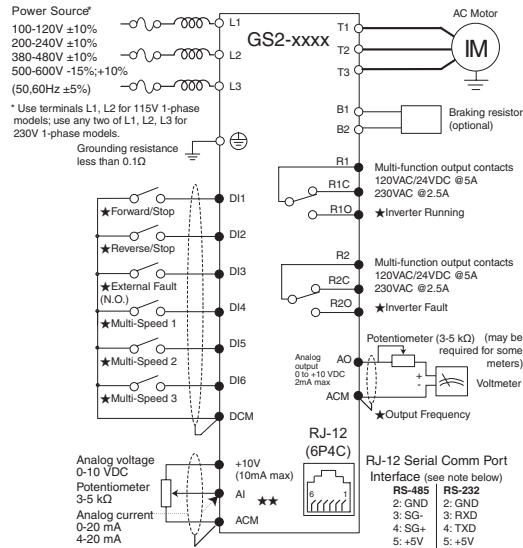


GS2

GS2 SERIES DRIVES

QUICK REFERENCE

BASIC WIRING DIAGRAM



★ Factory default setting

★★ Factory default source of frequency command is via the keypad potentiometer

○ Main circuit (power) terminals ● Control circuit terminal ⬮ Shielded leads



Warning: Do not plug a modem or telephone into the GS2 RJ-12 Serial Comm Port, or permanent damage may result. Terminals 2 and 5 should not be used as a power source for your communication connection.

GS2 Abbreviated Parameter List

This abbreviated parameter list contains only the most commonly used parameters. For the complete GS2 Series parameter listing, see the GS2 Series Drives User Manual.

GS2 Parameter	Description	Range
P 0.00	Motor Nameplate Voltage	115/230V class: 200/208/220/230/240 460V class: 380/400/415/440/460/480 575V class: 380 to 637
P 0.01	Motor Nameplate Amps	Drive Rated Amps X 30 to 100%
P 0.02	Motor Base Frequency	50/60/400
P 0.03	Motor Base RPM	375 to 9999 rpm
P 0.04	Motor Maximum RPM	P 0.03 to 9999 rpm
P 1.00	Stop Methods	00: Ramp to Stop 01: Coast to Stop
P 1.01	Acceleration Time 1	0.1 to 600.0 sec
P 1.02	Deceleration Time 1	0.1 to 600.0 sec
P 2.00	Volts/Hertz Settings	00: General Purpose 02: Fans and Pumps 01: High Starting Torque 03: Custom
P 2.02	Auto-torque Boost	00 to 10
P 3.00	Source of Operation Command	00: Operation determined by digital keypad 03: Operation determined by RS-232C/RS-485 interface; keypad STOP is enabled 01: Operation determined by external control terminals; keypad STOP is enabled 04: Operation determined by RS-232C/RS-485 interface; keypad STOP is disabled 02: Operation determined by external control terminals; keypad STOP is disabled
P 3.01	Multi-function Input Terminals (DI1 - DI2)	00: DI1 - FWD / STOP 02: DI1 - RUN momentary (N.O.) DI2 - REV / STOP DI2 - REV / FWD 01: DI1 - RUN / STOP DI3 - STOP momentary (N.C.) DI2 - REV / FWD
P 3.02	Multi-function Input (DI3)	*00: External Fault (N.O.) 10: External Base Block (N.O.) *01: External Fault (N.C.) 11: External Base Block (N.C.) 02: External Reset 12: Second Accel/Decel Time
P 3.03	Multi-function Input (DI4)	03: Multi-Speed/PID SP Bit 1 13: Speed Hold 04: Multi-Speed/PID SP Bit 2 14: Increase Speed
P 3.04	Multi-function Input (DI5)	05: Multi-Speed/PID SP Bit 3 15: Decrease Speed 06: Reserved 16: Reset Speed to Zero 07: Reserved 17: PID Disable (N.O.)
P 3.05	Multi-function Input (DI6)	08: Reserved 18: PID Disable (N.C.) 09: Jog 99: Input Disable

* For P3.02-P3.05, use either setting 00 or 01, but not both.
Use interposing relays if more contacts are needed.

GS2 Parameter	Description	Range	
P 3.11	Multi-Function Output Terminal 1	00: AC Drive Running 01: AC Drive Fault 02: At Speed 03: Zero Speed	06: At Maximum Speed 07: Over torque detected 08: Above Desired Current 09: Below Desired Current
P 3.12	Multi-Function Output Terminal 2	04: Above Desired Frequency 05: Below Desired Frequency	10: PID Deviation Alarm
P 4.00	Source of Frequency Command	00: Frequency determined by keypad potentiometer 01: Frequency determined by digital keypad up/down 02: Frequency determined by 0 to +10V input on AI terminal with jumpers 03: Frequency determined by 4 to 20 mA input on AI terminal with jumpers 04: Frequency determined by 0 to 20 mA input on AI terminal with jumpers 05: Frequency determined by RS-232C/RS-485 communication interface	
P 4.01	Analog Input Offset Polarity	00: No Offset 01: Positive Offset	02: Negative Offset
P 4.02	Analog Input Offset	0.0 to 100.0%	
P 4.03	Analog Input Gain	0.0 to 300.0%	
P 4.11	Analog Output Signal	00: Frequency Hz 01: Current A	02: PV
P 4.12	Analog Output Gain	00 to 200%	
P 7.00	Input Terminal for PID Feedback	00: Inhibit PID operation 01: Forward Acting (Heating Loop) PID feedback; PV from AV1 (0 to +10V) 02: Forward Acting PID feedback; PV from AC1 (4 to 20 mA)	03: Reverse Acting (Cooling Loop) PID feedback; PV from AV1 (0 to +10V) 04: Reverse Acting PID feedback; PV from AC1 (4 to 20 mA)
P 7.02	PID Setpoint Source	00: Keypad	01: Serial Communications
P 7.20	Proportional Control	0.0 to 10.0	
P 7.21	Integral Control	0.00 to 100.0 sec	(0.00 = Disable)
P 7.22	Derivative Control	0.00 to 1.00 sec	
P 8.00	User Defined Display Function	00: Output Frequency (Hz) 01: Motor Speed (rpm) 02: Output Freq. X P8.01 03: Output Current (A) 04: Motor Output Current (%)	05: Output Voltage (V) 06: DC Bus Voltage (V) 07: PID Setpoint 08: PID Feedback (PV) 09: Frequency Setpoint
P 8.01	Frequency Scale Factor	0.01 to 160.0	
P 9.08	Restore to Default	99: Restores ALL parameters to factory defaults	

GS2 Parameter	Description	Range
P 6.31	Present Fault Record	00: No Fault occurred 01: Over-current (oc) 02: Over-voltage (ov) 03: Overheat (oH)
P 6.32	Second Most Recent Fault Record	04: Overload (oL) 05: Overload 1 (oL1) 06: Overload 2 (oL2)
P 6.33	Third Most Recent Fault Record	07: External Fault (EF) 08: CPU failure 1 (CF1) 09: CPU failure 2 (CF2) 10: CPU failure 3 (CF3)
P 6.34	Fourth Most Recent Fault Record	11: Hardware Protection Failure (HPF) 12: Over-current during accel (OCA) 13: Over-current during decel (OCd) 14: Over-current during steady state (OCn)
P 6.35	Fifth Most Recent Fault Record	15: Ground fault or fuse failure (GFF) 16: Reserved
P 6.36	Sixth Most Recent Fault Record	17: Input Power three-phase loss 18: External Base-Block (bb) 19: Auto Adjust accel/decel failure (cFA) 20: Software protection code (codE)



Technical Support

By Telephone: **770-844-4200**
(Mon.-Fri., 9:00 a.m.-6:00 p.m. E.T.)

On the Web: www.automationdirect.com

Our technical support group is glad to work with you in answering your questions. If you cannot find the solution to your particular application, or, if for any reason you need additional technical assistance, please call technical support at **770-844-4200**. We are available weekdays from 9:00 a.m. to 6:00 p.m. Eastern Time.

We also encourage you to visit our web site where you can find technical and non-technical information about our products and our company. Visit us at www.automationdirect.com.

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