

COMMUNICATOR

V2G

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GENERAL INFORMATION

- All MOTORSCOPE and LEVEL CONTROLLER units have RS232 outputs for serial communication.
- The COMMUNICATOR connects to this serial port by means of a RS232 cable (standard with unit). During operation, the control units transmit information to the COMMUNICATOR, which it interprets to control 3 relays.
- L.E.D. lights display the state of the relays (see the table below for all possible relay and L.E.D. conditions).
- The COMMUNICATOR also has a 4-20mA output which indicates the present running power / level relative to the LOW and HIGH limits.
- For detailed error information or to adjust the settings on the MOTORSCOPE Unit, an OPTIMIZER can be plugged in on the OPTIMIZER plug.

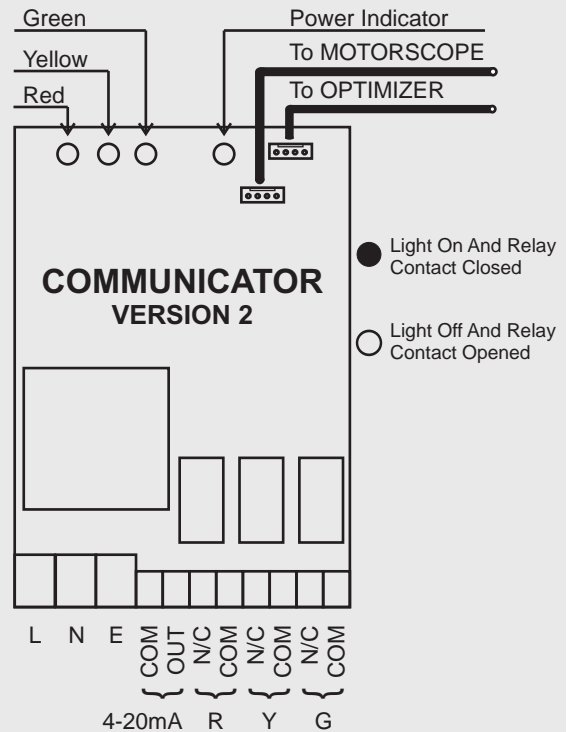
Explanation of Light & Relay Status

- Red** ————— No Errors
- Yellow** ————— Error with Programmed Auto-Recovery
- Green** — Non-Recoverable Error.

R Y G PRESENT MOTORSCOPE STATE

R	Y	G	PRESENT MOTORSCOPE STATE
○	○	●	ALL OK
○	●	○	UNDERLOAD (Restart Enabled)
○	●	○	AUXILIARY INHIBIT
○	●	○	MOTOR RESTART DELAY
○	●	○	VOLTAGE AMPLITUDE ERROR
○	●	○	VOLTAGE IMBALANCE ERROR
○	●	○	VOLTAGE FREQUENCY ERROR
●	○	○	NO COMMUNICATION WITH MOTORSCOPE UNIT
●	○	○	NO CURRENT
●	○	○	OVER CURRENT
●	○	○	UNDERLOAD (Restart Disabled)
●	○	○	OVERLOAD (Power)
●	○	○	OVERLOAD (Minimum Phase Angle)

PHYSICAL LAYOUT



TECHNICAL SPECS

INTERFACE	: RS232
CONTROLLER VOLTAGE	: 230V / 400V / 525V
FREQUENCY RANGE	: 40 - 70 Hz
CONSUMPTION	: 2VA
MAX. CONTACT CAPACITY	: 60 W (e.g. 230V, 250mA)
MAX. 4-20mA IMPEDANCE	: 250Ω
TEMP RANGE	: -15 to +70° C
MECHANICAL	: Weight ±500g
DIMENSIONS	: 85 x 130 x 50mm

CONTINUE ON THE NEXT PAGE.

●	○	○	PHASE SEQUENCE ERROR
●	○	○	MOTOR CAN NOT START (SINGLE PHASE UNITS ONLY)
●	○	○	INSULATION TEST FAILED (B110 ONLY)
●	○	○	MOTORSCOPE CONTROLLER ERROR
●	○	○	COMMUNICATOR CONTROLLER ERROR
●	○	○	UNMAPPED ERROR - UPDATE COMMUNICATOR FIRMWARE
●	●	●	MOTORSCOPE UNCALIBRATED

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Explanation of Light & Relay Status

Red ————— No Errors

Yellow ————— Error with Programmed Auto-Recovery

Green ————— Non-Recoverable Error.

○ Light Off And Relay Contact Opened

● Light On And Relay Contact Closed

R	Y	G	PRESENT LIQUID LEVEL CONTROLLER STATE
○	○	●	PUMP A = OFF PUMP B = OFF ALARM = OFF TEMPERATURE = GOOD
○	●	○	PUMP A = OFF PUMP B = OFF ALARM = OFF TEMPERATURE = BAD
○	●	○	PUMP A = ON PUMP B = OFF ALARM = OFF TEMPERATURE = GOOD
○	●	○	PUMP A = ON PUMP B = OFF ALARM = OFF TEMPERATURE = BAD
○	●	○	PUMP A = OFF PUMP B = ON ALARM = OFF TEMPERATURE = GOOD
○	●	○	PUMP A = OFF PUMP B = ON ALARM = OFF TEMPERATURE = BAD
○	●	○	PUMP A = ON PUMP B = ON ALARM = OFF TEMPERATURE = GOOD
●	○	○	PUMP A = ON PUMP B = ON ALARM = OFF TEMPERATURE = BAD
●	○	○	PUMP A = OFF PUMP B = OFF ALARM = ON TEMPERATURE = GOOD
●	○	○	PUMP A = OFF PUMP B = OFF ALARM = ON TEMPERATURE = BAD
●	○	○	PUMP A = ON PUMP B = OFF ALARM = ON TEMPERATURE = GOOD
●	○	○	PUMP A = ON PUMP B = OFF ALARM = ON TEMPERATURE = BAD
●	○	○	PUMP A = OFF PUMP B = ON ALARM = ON TEMPERATURE = GOOD
●	○	○	PUMP A = OFF PUMP B = ON ALARM = ON TEMPERATURE = BAD
●	○	○	PUMP A = ON PUMP B = ON ALARM = ON TEMPERATURE = GOOD
●	○	○	PUMP A = ON PUMP B = ON ALARM = ON TEMPERATURE = BAD
○	●	○	LLC ERROR RECOVERY
●	○	○	SUPPLY VOLTAGE AMPLITUDE ERROR
●	○	○	SENSOR INPUT TOO LOW ERROR
●	○	○	SENSOR INPUT TOO HIGH ERROR
●	○	○	NO COMMUNICATIONS
●	○	○	LEVEL CONTROLLER ERROR
●	○	○	COMMUNICATOR CONTROLLER ERROR
●	○	○	UNMAPPED ERROR - UPDATE FIRMWARE
●	●	●	LIQUID LEVEL CONTROLLER UNCALIBRATED