

# SAVVY 1 CIU MOTOR MONITORING CONTROL PANEL



## SAVVY 1 CONTROL PANEL

The SAVVY 1 pump motor status monitor and controller panel is designed for use with your ½ HP -115 VAC or 1-15 HP - 230 VAC single phase GAS MASTRRR series 32 or 32P submersible mixers.

The SAVVY 1 panel is Nema 4X rated with a non-metallic FRP enclosure for indoor/outdoor service.

Components include a UL Listed motor monitor with LED display, contactor, Nema 4X rated run, off and alarm status lamps, HOA switch, mechanical run time hour meter, and lightning surge arrester.

UL Listed motor monitor includes high/low voltage trips, overcurrent/undercurrent trips, rapid cycling protection, and includes programmable time delay restarts. The motor monitor provides reliable instantaneous protection against low voltage conditions and trips the motor if overcurrent or undercurrent set-points are exceeded.

The LED display supplies realtime data on motor amperage, voltage, and pending or current fault conditions.

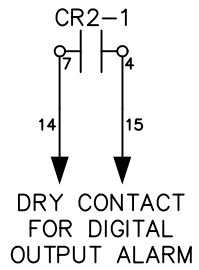
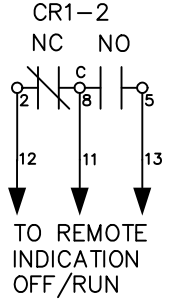
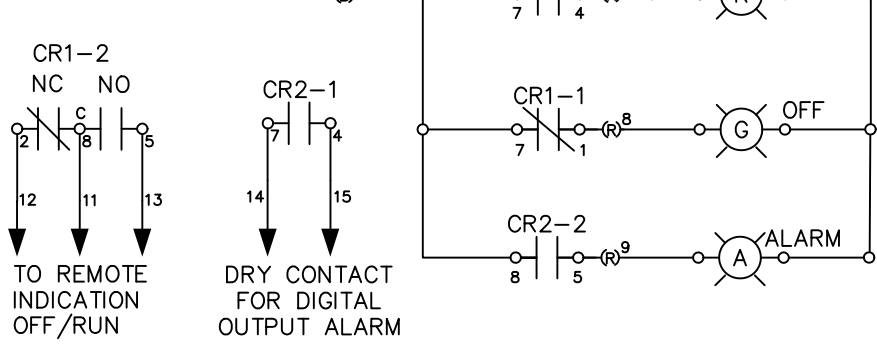
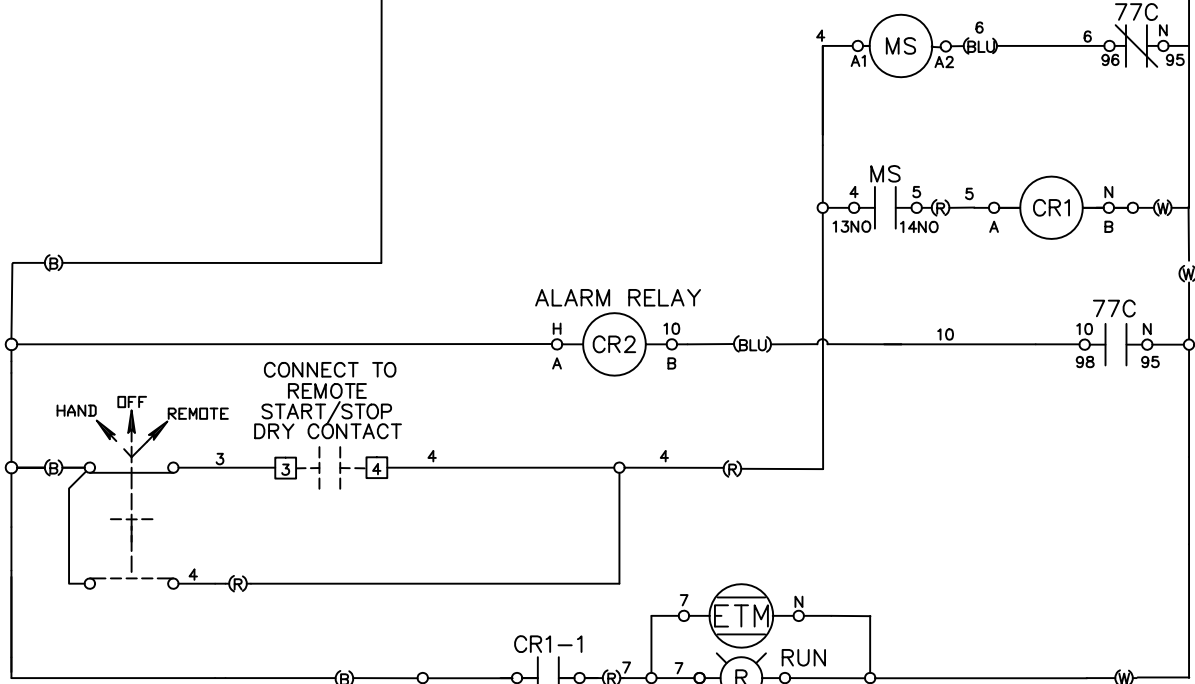
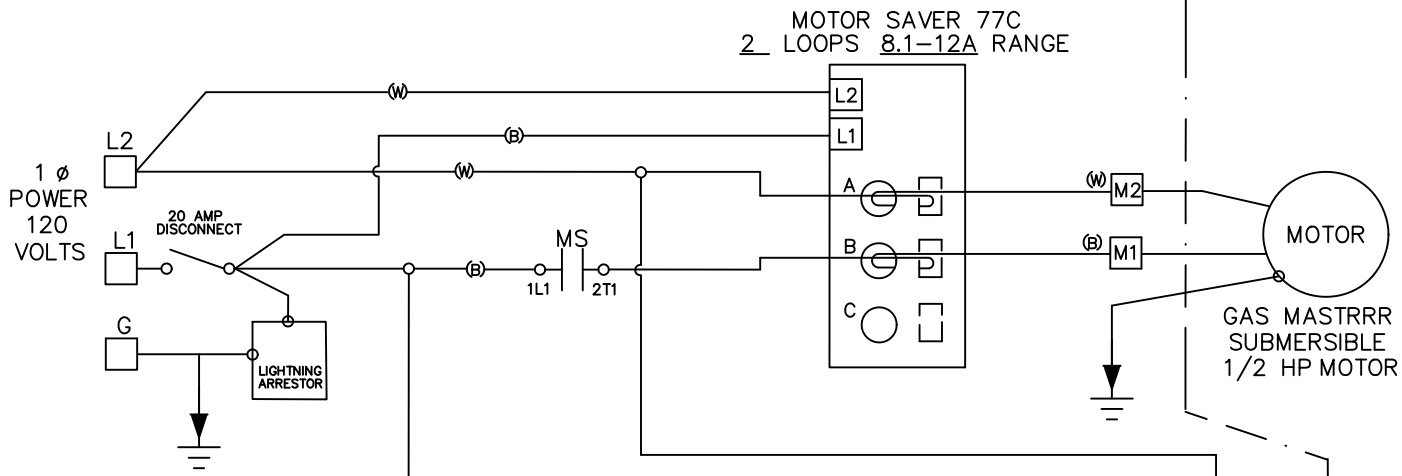
The panels are wired for 115 VAC single phase service with optional 230 VAC for GAS MASTRRR series 32 or 32P units 1-15 HP utilizing 230 VAC single phase power. Optional RM-2000 display keypad and audible/visual alarms available. The panels are tested, programmed and ready for service with your CIU.

### FEATURES:

- \* NEMA 4X FRP enclosure for indoor/outdoor service..
- \* High/low voltage, over/undercurrent, and rapid cycling protection.
- \* Programmable time delay restarts.
- \* External motor run-time hour meter (mechanical).
- \* External run, off and alarm status lamps.
- \* Terminal blocks for remote indication and control.
- \* Realtime LED display of amperage, voltage, and pending or current faults.
- \* Optional receptacle for quick power cord disconnect is available for easy installation and removal of the CIU. The receptacle is installed at the lower exterior of the SAVVY 1 panel. Other options include audible/visual alarm beacon with alarm silence pushbutton.

**MOTOR MONITOR PROGRAMMABLE FUNCTIONS:**

1) Low Voltage Set Point	13) Overcurrent Trip Delay
2) High Voltage Set Point	14) Time delay units (seconds/minutes)
3) Overcurrent Trip Point	
4) Undercurrent Trip Point	
5) Trip Class (5, 10, 15, 20, 30)	
6) Rapid Cycle Timer (Rd1)	
7) Overcurrent Restart Delay (Rd2)	
8) Undercurrent Restart Delay (Rd3)	
9) No. of restarts after an Undercurrent (Manual or Automatic)	
10) RS485 Address	
11) No. of restarts after an Overcurrent (Manual or Automatic)	
12) Undercurrent Trip Delay	



- WIRE COLORS**
- (R) CONTROL CIRCUITS (RED)
  - (B) POWER CONDUCTORS (BLACK)
  - (BLU) CONTROLLED NEUTRAL CIRCUITS (BLUE)
  - (G) GROUND CONDUCTORS (GREEN)
  - (W) NEUTRAL CONDUCTORS (WHITE)
  - ⊕ NOT DE-ENERGIZED WHEN THE PANEL DISCONNECT IS OPEN (YELLOW)

L1	L2	3	4	11	12	13	14	15			M1	M2	G
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TERMINAL BLOCK SCHEDULE  
TORQUE FIELD WIRING  
TERMINAL TO 7.1 INCH Lb.

JOB NAME: SAMPLE	
DESCRIPTION: SAVVY 1 CONTROL PANEL 120 VAC - WIRE DIAGRAM	
DATE: 2-10-09	SHEET NO: 3
THE MASTRRR COMPANY FRIENDSWOOD, TEXAS (800)-299-6836	FILE NO: