

SAVVY 1

CIU MOTOR CONTROL PANEL



SAVVY 1 CONTROL PANEL

The SAVVY 1 pump motor status monitor and controller panel provides local or remote control and status indication of mixer operation. It is designed for use with your 1/2 HP -115 VAC or 1-15 HP - 230 VAC single phase GAS MASTRRR series 32 or 32PT 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, on and alarm status lamps, HOA switch, mechanical run time hour meter, and lightning surge arrester.

UL Listed motor monitor includes high/low voltage trips, over/under current trips, rapid cycling protection, and includes programmable time delay restarts. The SYMCOM 77C motor monitor provides reliable instantaneous protection against low voltage conditions and trips the motor if over-current or under-current set-points are exceeded.

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

Optional RM-2000 display keypad and audible/visual alarms available.

The panels are tested, programmed and ready for service with your CIU applications.



SAVVY 1 FEATURES

- * NEMA 4X FRP enclosure with UV resistant polycarbonate viewing window for indoor or outdoor service.
- * High/low voltage, over/under-current, 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.
- * SQUARE-D surge arrester.

MOTOR MONITOR PROGRAMMABLE FUNCTIONS:

MOTOR MONITOR PROGRAMMABLE FUNCTIONS:

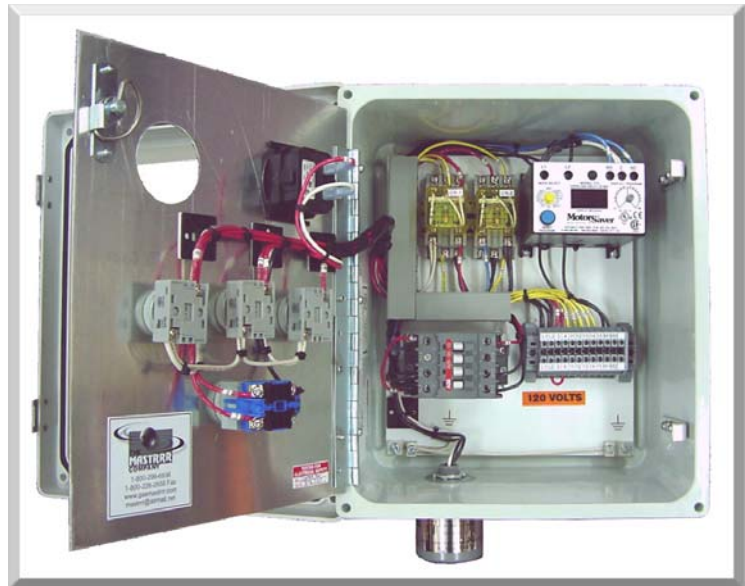
- 1) Low Voltage Set Point
- 2) High Voltage Set Point
- 3) Overcurrent Trip Point
- 4) Under-current Trip Point
- 5) Trip Class (5, 10, 15, 20, 30)
- 6) Rapid Cycle Timer (Rd1)
- 7) Over-current Restart Delay (Rd2)
- 8) Under-current Restart Delay (Rd3)
- 9) No. of restarts after an Under-current (Manual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



MAKING A WORLD OF DIFFERENCE IN CHEMICAL FEED TECHNOLOGY
1-800-299-6836 www.gasmastrrr.com mastrrrsales@gmail.com



SAVVY 1 - CONTROL PANEL - FUNCTIONAL DESCRIPTION



OPERATION

WITH MAIN CIRCUIT BREAKER ON, POWER NORMAL, UNIT SUBMERGED, TURNING H-O-A SWITCH TO HAND STARTS SUBMERSIBLE MOTOR. TURNING H-O-A SWITCH TO AUTO (WITH JUMPER INSTALLED ON TERMINAL BLOCKS #3 & #4 OR REMOTE PLC CONTACT CLOSURE) STARTS SUBMERSIBLE MOTOR.

IN "HAND OR AUTO" POSITION

SHOULD SYMCOM 77-C DETECT ABNORMAL

1. HIGH OR LOW MOTOR VOLTAGE BEFORE START
2. HIGH OR LOW MOTOR AMPERAGE AFTER START
3. RAPID CYCLING

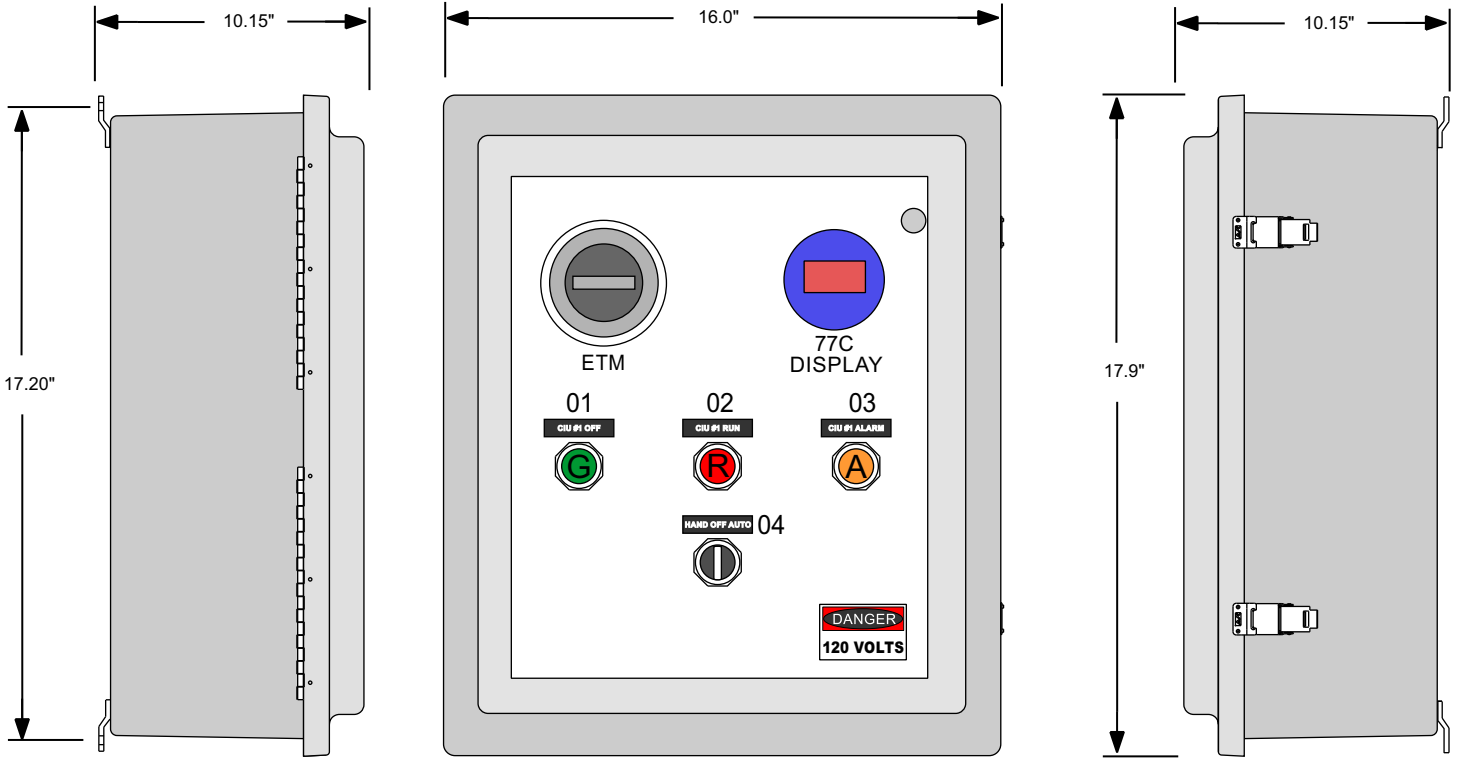
CONTACT 77-C OPENS, DE-ENERGIZING CONTACTOR, STOPPING CIU MOTOR AND INDICATING ALARM

INDICATION LIGHTS

OFF INDICATION
RUN INDICATION
ALARM INDICATION
MOTOR RUN TIME TOTAL
77-C DISPLAY MOTOR INFO
AUTO-SENSORY STATUS

JOB NAME:	
DESCRIPTION: SAVVY 1 FUNCTIONAL DESCRIPTION	
DATE: 2018	SHEET NO: 1
THE MASTRRR COMPANY FRIENDSWOOD, TEXAS (800-299-6836)	FILE NO: SAVVY 1-1

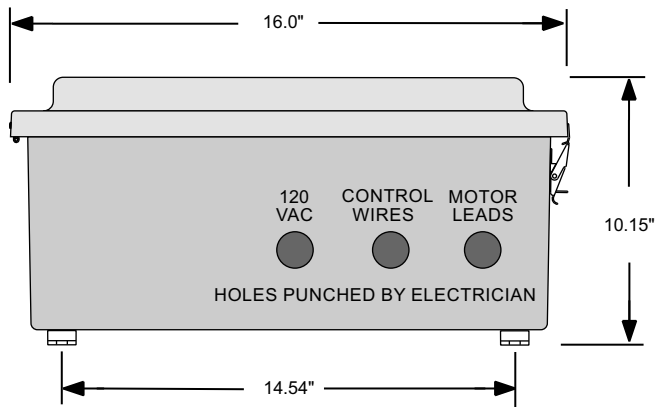
SAVVY 1 - CONTROL PANEL DIMENSIONS



LEFT VIEW

FRONT VIEW

RIGHT VIEW



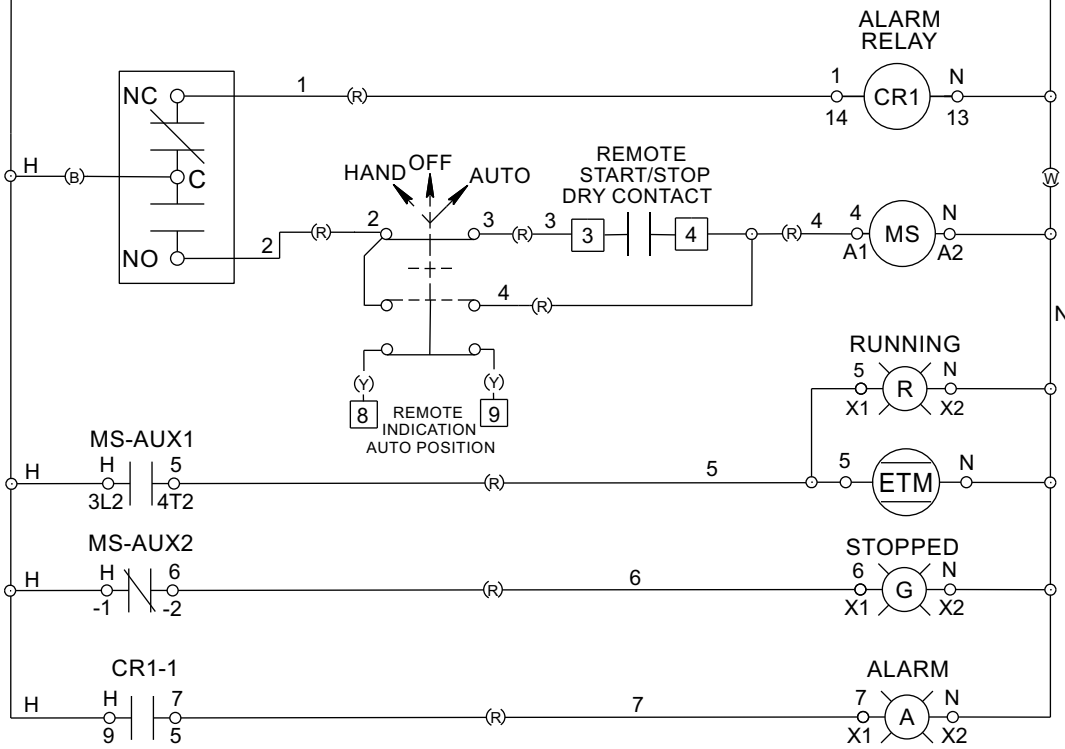
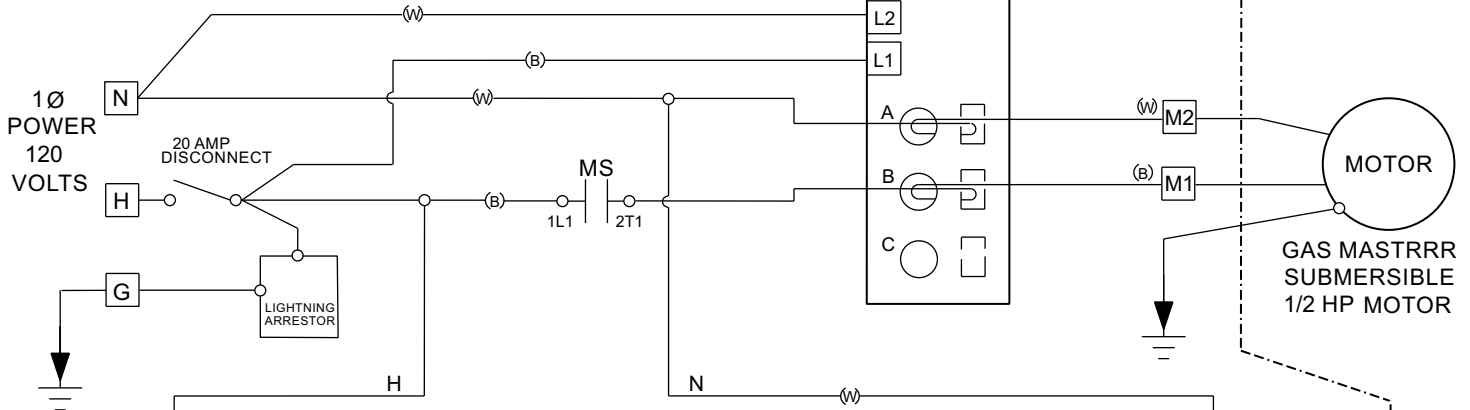
BOTTOM VIEW

LEGEND PLATE SCHEDULE			
TAG	DESC1	DESC2	SIZE
01	CIU	OFF	2" X 1/2"
02	CIU	RUN	2" X 1/2"
03	FAULT	ALARM	2" X 1/2"
04	SWITCH	H O A	2" X 1/2"

SAVVY 1 PANEL WEIGHT 30 LBS.

JOB NAME:	
DESCRIPTION: SAVVY 1 CONTROL PANEL DIMENSIONS	
DATE: 2018	SHEET NO: 2
THE MASTRRR COMPANY FRIENDSWOOD, TEXAS (800)-299-6836	FILE NO: SAVVY 1-1

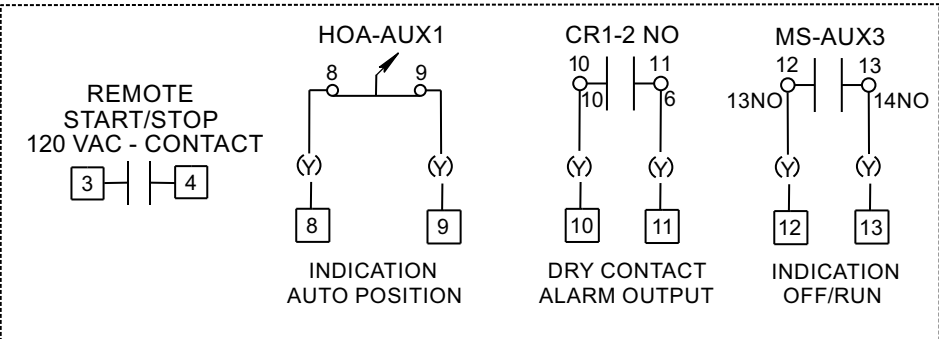
**MOTOR SAVER 77C
2 LOOPS 8.1-12A RANGE**



WITHIN SAVVY 1 PANEL

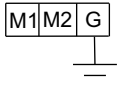
DRY CONTACT INPUTS/OUTPUTS

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



3	4	8	9	10	11	12	13				
---	---	---	---	----	----	----	----	--	--	--	--

TERMINAL BLOCK SCHEDULE
 TORQUE FIELD WIRING
 TERMINAL TO 7.1 INCH Lb.



JOB NAME:	
DESCRIPTION: SAVVY 1 CONTROL PANEL 120 VAC - WIRE DIAGRAM	
DATE: 2018	SHEET NO: 3
THE MASTRRR COMPANY FRIENDSWOOD, TEXAS (800)-299-6836	FILE NO: SAVVY 1-1