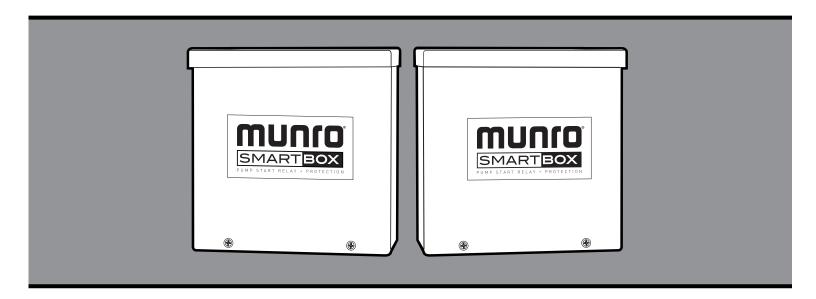
Troubleshooting Guide - SmartBox

Did You Know? Does your relay click? During a normal run cycle, no lights should be lit on the time delay. Should a sensor detect a possible system problem, the "on" light will engage. If the system is shut down during a cycle both Check the start/stop the "on" and "up" lights will be lit for the signal. Compare lawn controller G & H to W 8 X. Are both 24v? duration of the lawn controller cycle. Check A & B for line Are G & H 24v? Check wiring according to the wiring diagram Is the wiring correct? oltage. Is it the same a leaves breaker box. Are W & X 24v? Troubleshoot lawr Is this a seasonal or a Check or replace the Time Delay U. Does it Controller works, Replace Contacto first time fill up? See 'Note 2' below No No Yes Yes Call electrician to troubleshoot wiring. Controller works, Check A & B for line Replace Time Delay Yes and/or increase time on time delay U to allow for filling. Note 1: Checking the Time Delay – Turn the time delay down to 5 seconds. Next, cross the TIME DELAY PRESETS red and blue wire. The "on" light should turn LAWN CONTROLLER / CLOCK on. After 5 seconds the system should shut off and both the "on" and "up" lights should be on. BREAKER BOX \oplus Note 2: Filling system lines may require multiple run cycles to build enough pressure to initiate the sensor. COMMON 24 V WHITE WIRE LOW VOLTAGE SIGNAL WIRES PRESSURE SENSOR WHITE WIRE -Neutral - 110V OR 2nd Hot 220V BLUE WIRE 130° HIGH TEMPERATURE SWITCH (Install directly on case or within 12" of the Call Munro technical support for any questions relating to this product. Toll Free: 1.800.942.4270 **MUULO**

OWNER'S MANUAL

SMARTBOX – REDUCED INCOMING AMPERAGE 2-WIRE DECODER SYSTEM COMPATIBLE



Installation - Operation - Parts

Part Number	Description	External Packaged Components
MPLC242W22T	Pump protection from low pressure, run dry and high temperature due to dead head. Compatible with 2-wire decoder systems and other low-amp irrigation controllers, 220v, powder-coated steel	20 PSI sensor and 130° temperature sensor
MPLC242W22TS	Pump protection from low pressure, run dry and high temperature due to dead head. Compatible with 2-wire decoder systems and other low-amp irrigation controllers, 220v, stainless steel	20 PSI sensor and 130° temperature sensor
MPLC242W11T	Pump protection from low pressure, run dry and high temperature due to dead head. Compatible with 2-wire decoder systems and other low-amp irrigation controllers, 110v, powder-coated steel	20 PSI sensor and 130° temperature sensor
MPLC242W11TS	Pump protection from low pressure, run dry and high temperature due to dead head. Compatible with 2-wire decoder systems and other low-amp irrigation controllers, 110v, stainless steel	20 PSI sensor and 130° temperature sensor

1.800.942.4270 www.munropump.com



Typical SmartBox Installation -

Step

Refer to specific wiring diagram located on inside cover of enclosure.

Turn Breaker "OFF"

· Never work with electrical wiring on a live circuit.

AWARNING

Plumb for Sensors

• Pressure Sensor - 1/4" NPT

- Install on discharge side of the pump, as close to the pump as is practical, making sure the sensor is installed before a check valve.
- High Temperature Sensor 1/4" NPT
- Install directly on pump case or within 12" of the pump.

Wire Sensor(s)

- Wire sensor(s) to RED & BLUE leads in the SmartBox, secure with
- *Temperature sensor is wired in parallel with pressure sensor.

NOTE - RED & BLUE lead wires can be placed on either terminal of the pressure sensor and high temperature sensor.

Wire Lawn Controller

- Locate the Master Valve (MV) and Common (COM) inside Lawn Controller.
- Wire MV to BLACK wire lead in SmartBox, secure with wire nuts.
- Wire COM to WHITE wire lead in SmartBox, secure with wire nuts.

Wire Contactor to Pump

- Refer to wiring diagram on motor plate for proper voltage and wire
- Refer to NEC wire cable chart for proper size of wire. Undersized wire can affect pump performance.

Wire Power Supply

• Run power supply wires from breaker box (110 v or 220 v).

- Attach GREEN grounding wire to grounding screw.
- Attach BLACK HOT to L2 on contactor.
- Attach WHITE Neutral (110 v) / second HOT (220 v) to L1 on contactor.

Step

9

Turn Breaker "On"

