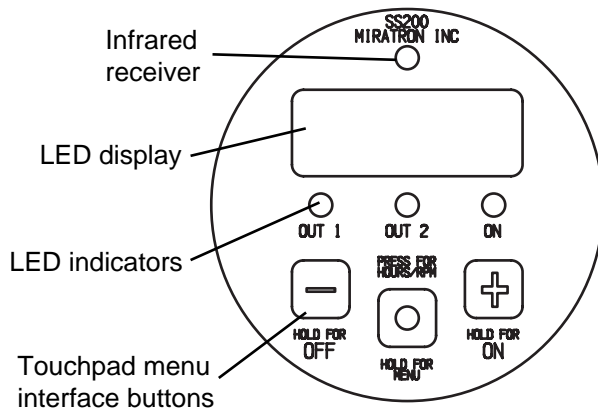


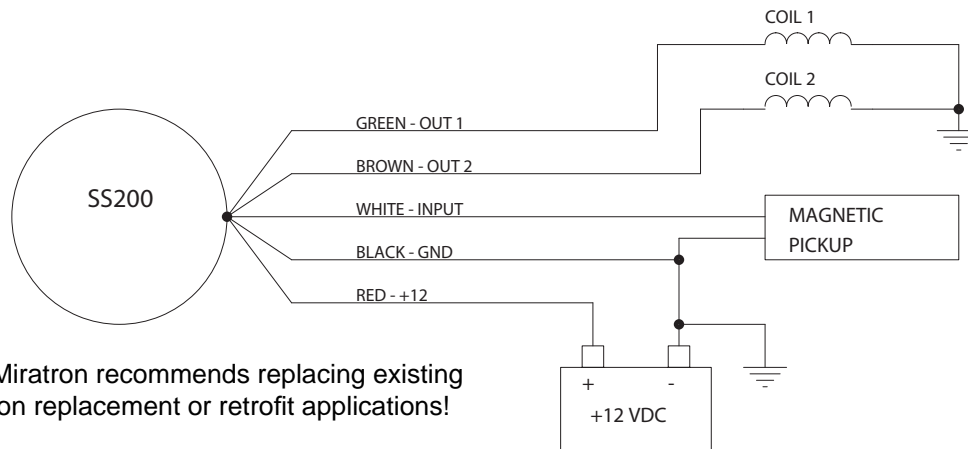
Installation and Setup Instructions

SS200 Tachometer, Hour Meter, Volt Meter

Automatic feed controller



WIRING



Note: Miratron recommends replacing existing wiring on replacement or retrofit applications!

OPERATION

Normal operation:

Press "O" button as needed to view readings:
 tACH = Engine RPM.
 bAt = Battery voltage.
 HoUr = Run time in hours.

Output control (on/off):

Enable output (ON)
 Hold "+/HOLD FOR ON" button for 3 seconds.
 Display will read "on" for 1 second
 "ON" LED will be lit.

Disable output (OFF)

Hold "-/HOLD FOR OFF" button for 3 seconds.
 Display will read "oFF" for 1 second.
 "ON" LED will go out.

Programming:

1. Hold "O" button for 3 seconds to enter programming mode.
2. Press "O" button momentarily to select parameter to adjust.
3. Press "+" and "-" buttons to change setting.

"Lo" is low setpoint. Feed stops (reverse) if engine RPM falls below this number.

"Hi" is high setpoint. Engine RPM must be above this number for feed to resume.

"bACt" is backup time. Adjusts how long feed reverses. (Applies only to machines with reversing feature.)

Call 1-866-285-0132 for technical support.

MODES

MODE	OUTPUT	RPM			
		ENGINE START	BELOW LOW-SET	BETWEEN LOW AND HIGH	ABOVE HIGH-SET
0	OUT 1	ON	ON	DEADBAND	OFF
	OUT 2	OFF	ON FOR REV TIME	DEADBAND	OFF
1	OUT 1	OFF	OFF	DEADBAND	ON
	OUT 2	OFF	ON FOR REV TIME	OFF	OFF
2	OUT 1	OFF	OFF	DEADBAND	ON
	OUT 2	ON	ON	DEADBAND	OFF
3	OUT 1	ON	ON	DEADBAND	OFF
	OUT 2	ON	ON	DEADBAND	OFF

DEADBAND: Output remains in previous state. If RPM is increasing, output stays in “below low-set” state. If RPM is decreasing, output stays in “above high-set” state.

Summary:

Mode 0: Controls single coil for STOP only, or special 2-coil applications.

Mode 1: Controls two coils for FORWARD and REVERSE.

Mode 2: Generic mode for over/under indication

Mode 3: Same as mode 0, but outputs can be connected together for increased current capacity.

SPECIFICATIONS

General:	Power requirement	9-15Vdc, 500mA max.
Outputs:	Solid state	Provides input voltage at 3-amps max.
Sensor Input:	Type	Magnetic pickup, 2 to 50 VAC Proximity switch, open drain
	Frequency range	10 to 10,000Hz
Adjustment:		Touchpad menu interface for field operation. Infrared receiver for factory commissioning.
RPM setpoint range:		0 to 9,999 RPM
Display:		4-digit LED, indicates RPM, Volts, Hours, settings. 3 discrete LED's indicate output status.
Mounting:		Mounts in 3.25" round hole. Mounting bracket, hardware, gasket included.
Environmental:	Storage	-40degC to 85degC
	Operating	-10degC to 60degC

Response Time/Accuracy:

TEETH	Response Time	Hz Accuracy	RPM Accuracy
1-20	1/4 sec	4	4.6 / teeth
21-75	1/8 sec	8	8.6 / teeth
76-150	1/10 sec	10	10.6 / teeth
151-999	1/16 sec	16	16.6 / teeth