



HIRSCHMANN

PAT

PRS 35 EZ



OPERATOR'S / SERVICE MANUAL

P/N 031-300-190-164 Revision D 07/13/2004

3 FEATURES

The PAT PRS 35 EZ has the following features:

- Can be hardwired to most PAT sensors.
- Wireless operation option of multiple sensors.
- Easily and clearly shows the operator required information.
- Multi language. The system can be setup to display text in both English and Spanish.
- Multiple limits can be set.
- Minimum of 500 feet LOS.
- Can display in multiple units.
- Built in lockout relay. Rated at 5 amps
- Tare function.
- Low battery indication.
- Expandable
- Direct replacement for the EI33

4 SYSTEM DESCRIPTION

4.1 CONSOLE

The console has 2 functions:

- Accepts inputs from the crane operator (reeving, limits and setup)
- Displays important data and information from the sensors

The operator's console should be mounted in the operator's field of vision.

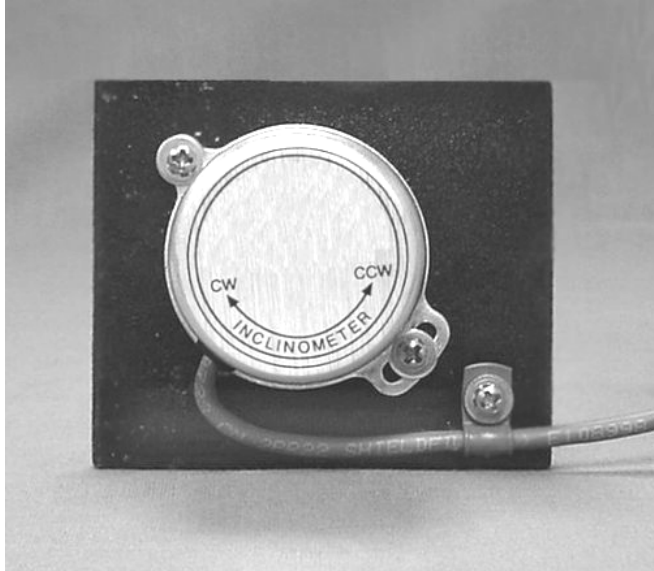
4.1.1 Liquid Crystal Display

The Liquid Crystal Display (LCD) used in the PAT PRS 35 EZ console is a wide temperature-range graphic display with transfective characteristics that give it a high visibility in sunlight and during backlit night operation. Due to the nature of any LCD, it works on the principle of polarization of light. It should be noted that dual polarizations that are at a certain angle to each other can reduce the amount of light up to completely eliminating it if that angle becomes perpendicular. This can have significance if the operator is wearing polarized sunglasses that happen to be perpendicularly polarized in relation to the LCD's polarization. In this rare case, the operator has to work without sunglasses or find different sunglasses that do not have this characteristic, in order to avoid having the visibility of the display impaired.

The LCD contains an automatic temperature compensation that will adjust the LCD's contrast according to the surrounding temperature.

5.1.3 Installation / Calibration Hardwired

Attach the supplied angle sensor mounting plate to the left side of the boom. Note the orientation of the plate from the photo below. If you are going to weld the plate to the boom, remove the angle sensor from the plate. Do not weld near the angle sensor. It will be damaged by welding.



Install the angle sensor to the plate with #6-32 screws and washers.

Clamp the cable with the supplied clamp and #6-32 screw and washers.

Route the cable from the boom to the console and insert the connector. Loop any extra cable length and store in a safe location.

Hardwired (AUX INPUT)

This is the setup for the standard PAT angle sensor. This angle sensor has a digital output.

The angle sensor must be previously installed.

Use the setup screens to add the angle sensor to the system.

Select the "AUX INPUT" from the following menu.



MENU/ SENSORS/ ANGLE/ AUX INPUT

RADIO

In order to use the A2B, the A2B transmitter must first be set up to with the console.

Add the first A2B sensor to the console by pressing



SENSORS/A2B 1/ RADIO. The console will show "SEARCHING". Pull and release the cord of the A2B switch. The switch is now setup.

Add the Second A2B sensor to the console by pressing



SENSORS/A2B 2/ RADIO. The console will show "SEARCHING". Pull and release the cord of the A2B switch. The switch is now setup

7 WIND

7.1.1 Operation

The wind speed can be shown by itself on the screen or if in combination with other sensors, as an additional screen.

WINDSPEED	PEAK
3 MPH	33

WINDSPEED	A2B
11 MPH	OK

The speed can be shown in miles per hour, or kilometers per hour.

When the wind speed is displayed by itself, the peak speed is also shown. The peak will be the highest wind speed recorded since the system was started. When the system is turned off the peak

value will be reset. The peak value can also be reset by pressing the  button.

8 LINE RIDER

8.1.1 Operation

In order to use the linerider, the linerider must first be installed into the system. See the section on linerider setup.

Reeving

To view the on hook load display, the correct reeving must be set.

Enter Setup screen. Select Reeving and press . Use the arrows to adjust the reeving setting.

REEVING
4

When complete, press .

LINE RIDER
26,200 LB

Units

The load can be displayed in pound or in kilograms.

To change the units, press . MENU/OPTIONS/LB

Tare

A Tare load can be displayed by pressing . Pressing this button will zero out the current load display. The tare load will be displayed for 30 seconds. While in the tare function, a T will be shown on the display.

LINE RIDER
,000 LB T

10 ADDING SENSORS

To add a new sensor,

Menu- SETUP/SENSORS/

This gives the sensor select/information screen. It shows the status of all hardware. Each sensor has several options:

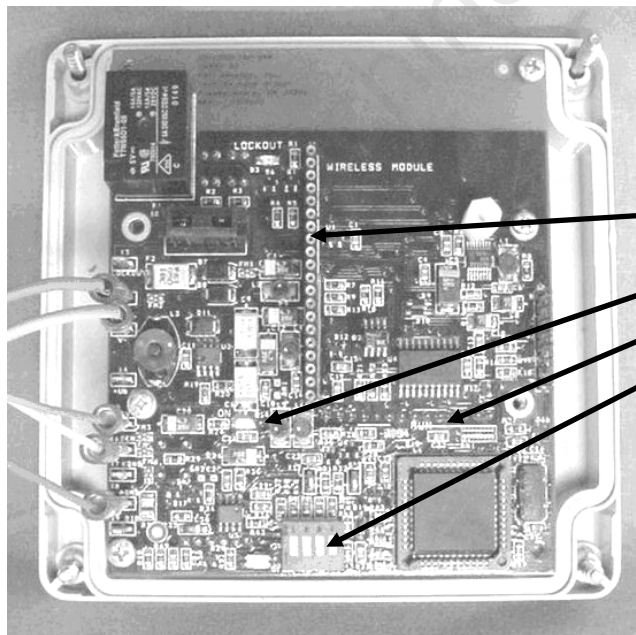
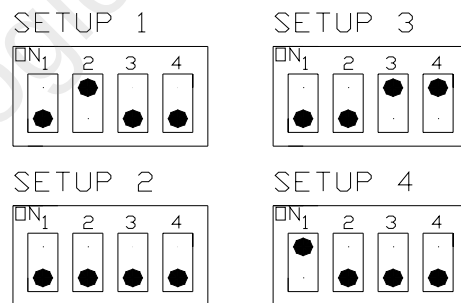
*NOT INSTALLED
HARDWIRED
RADIO

The status of the sensor is indicated with an "*". In the example, the sensor is "not installed".

The PRS35 is a very powerful and flexible system. To allow for multiple types of sensors, a 4 position DIP switch is utilized. The DIP switch must be in the proper position for the attached sensor to function properly. The DIP switch will be set into the proper position before shipped from the factory. If adding a hardwired sensor to the system, use the following for the diagrams.

DIP SWITCH SETTINGS

Current Linerider	-	SETUP 1
Kruger Angle sensor	-	SETUP 3
Serial Angle sensor	-	NA
Hardwired Wind speed	-	SETUP 4
Hardwired A2B	-	SETUP 4
All Radio sensors	-	NA



WIRELESS SOCKET
POWER INDICATION
RUN INDICATION
DIP SWITCH

Full Version Available

PAT PRS 35 EZ Load Moment Indicator Service Manual (031-300-190-164)

PAT PRS 35 EZ load moment indicator service manual with angle, wind, radio module, service and maintenance sections. Instant PDF download.

[VIEW THE FULL MANUAL](#)

Book No: 031-300-190-164 · File Pages: 47 · File Count: 1 · File Language: English