



HIRSCHMANN

PAT

LOAD MOMENT INDICATOR

DS 160



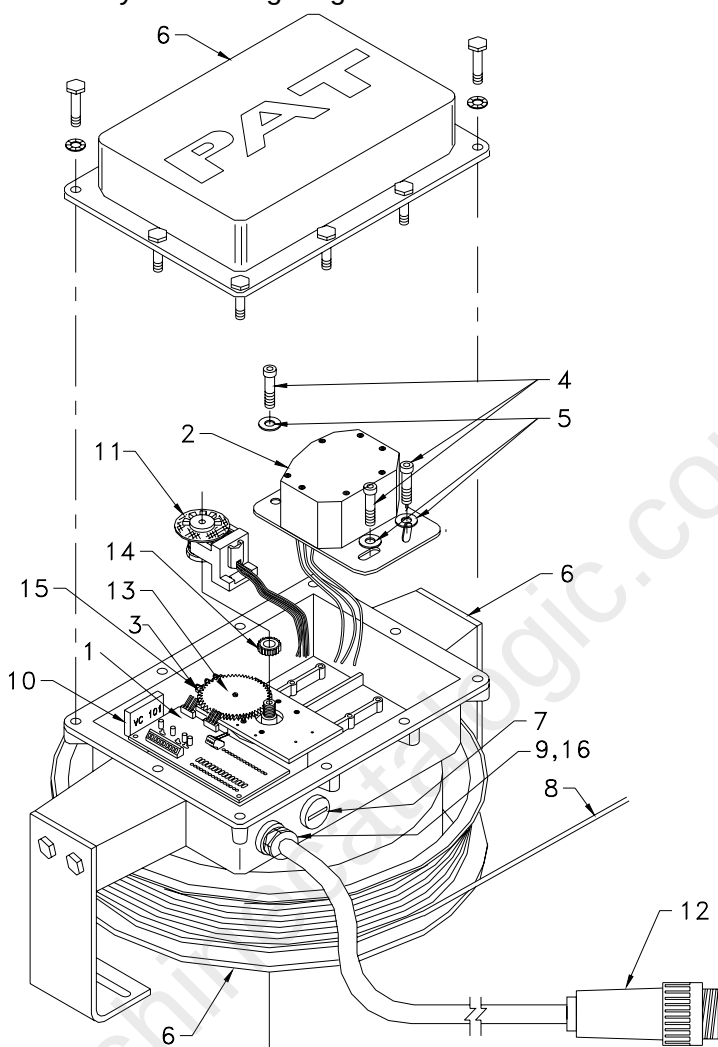
SERVICE MANUAL

P/N 9666104091 REV. G, 02/16/2006

Error Code	Error	Cause	Elimination
E13	Fallen below lower limit value in the measuring channel "pressure rod side"	• refer to E12	• refer to E12
E23	Upper limit value in measuring channel "pressure rod side" has been exceeded.	• refer to E12	• refer to E12
E15	Fallen below lower limit value for the measuring channel "angle main boom".	• Angle sensor defective. • Electronic part in the measuring channel defective.	• Replace angle sensor. • Replace LMI board.
E25	Upper limit value in measuring channel "angle main boom" exceeded	• refer to E15	• refer to E15
E16	Fallen below lower limit value for the measuring channel "middle section".	• Angle sensor defective. • Electronic part in the measuring channel defective.	• Replace angle sensor. • Replace LMI board.
E26	Upper limit value in measuring channel "middle section" exceeded	• refer to E16	• refer to E16
E17	Fallen below lower limit value for the measuring channel "telescopic jib".	• Angle sensor defective. • Electronic part in the measuring channel defective.	• Replace angle sensor. • Replace LMI board.
E27	Upper limit value in measuring channel "telescopic jib" exceeded	• refer to E17	• refer to E17
E19	Reference and/or supply voltage defective	• The supply voltage is falsified by one of the sensors (DAV, LWG) • Electronic component is defective	• Check the voltages on the LMI main board (AGND = MP0). Check sensors, plugs and cable, replace, if need be. • Replace LMI board

13.9 Cable Reel

Part Number **147216** (Refer to system wiring diagram in central unit for assembly part numbers)



NO.	PART NO.	QTY	DESCRIPTION
01	9333103309	1	BOARD, TERMINAL W/ EMC FILTERS
02	9333103840	1	ANGLE SENSOR WG103/0007
03	9333103308	1	SENSOR, LENGTH POT. LPE0018, CURRENT 4..20mA
04	7121152154	2	SCREW M6 X 12 HEX SOCKET CAP
05	9333101567	2	WASHER M6 FLAT
06	9333103376	1	HOUSING KT200
07	9333101732	1	PG13.5 HOLE PLUG
08	9333101618	139'	CABLE, LENGTH SINGLE CORE
09	147243	1	STRAIN RELIEF, PG11 GREEN
10	729600504	1	CHEMICAL, CORROSION INHIBITOR
11	9333102418	1	SLIP RING ASSEMBLY 2 POLE
12	147260	1	CABLE ASSEMBLY, 17'
13	9333101625	1	GEAR, 75 TOOTH FOR LWG208
14	9333103905	1	GEAR, 25 TOOTH FOR LWG208
15	9333103788	1	CABLE, MODULAR LENGTH & ANGLE, SENSOR 3p 32cm
16	9333101462	1	STRAIN RELIEF ACCY, PG13.5-11 REDUCER

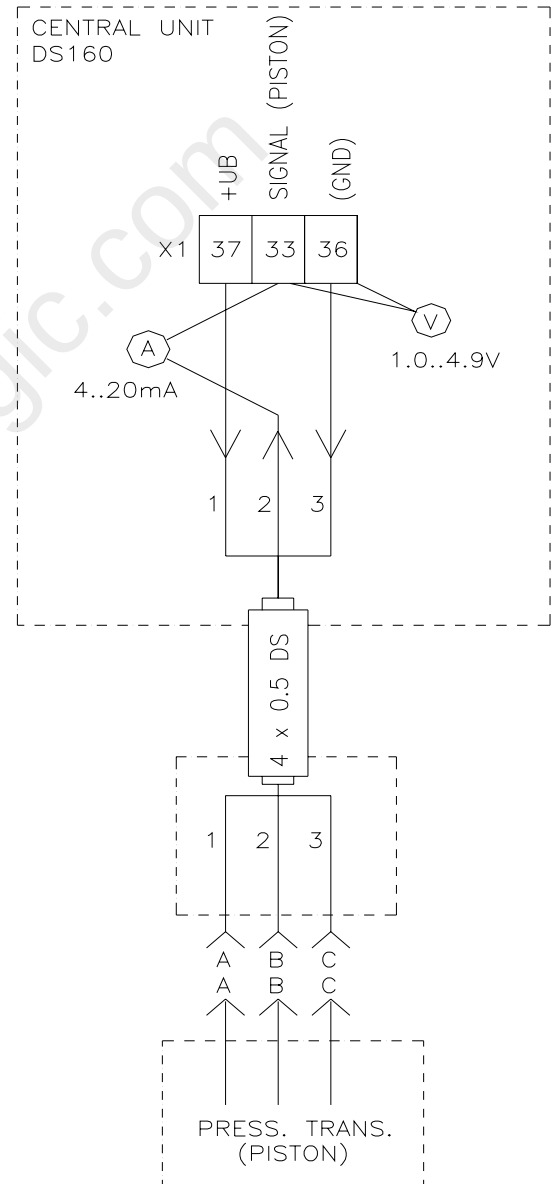
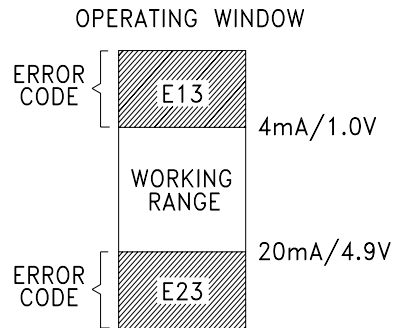
16.2 THEORY 2. OPERATION OF ROD SIDE LOAD SENSOR

Measuring current:

The ammeter (A) is used to measure current at the piston side input signal. Remove the wire from X1:33 terminal in the central unit and measure the current with the ammeter in series. The measurement should be between 4..20mA.

Measuring voltage:

The voltmeter (V) is used to measure voltage between pins X1:33 (rod side signal) and X1:36 (gnd) on the main board (147241). The conversion of 4mA to the voltage of 1.0V is due to the resistor circuit on the main board.



Full Version Available

PAT DS 160 Load Moment Indicator Service Manual (9666104091)

PAT DS 160 load moment indicator service manual with error codes, troubleshooting and sensor procedures. 2 searchable PDF files. Instant PDF download.

VIEW THE FULL MANUAL

<https://machinecatalogic.com/pat-ds-160-load-moment-indicator-service-manual-9666104091/>

Book No: 9666104091 · File Pages: 110 · File Count: 2 · File Language: English