



LOAD CELL CALIBRATION CERTIFICATION

CUSTOMER : INTERFAFORCE E.K.
ADDRESS : Tegernsee, GERMANY
CONDITION: FINAL S.O. #: 118876 P.O. #: 10-07078
MODEL 1730ACK-50KN SERIAL: 436815 BRIDGE: A CAPACITY: 50 kN
PROCEDURE: C-1257 Mounting Per Interface Installation Instruction 15-5

INPUT RESISTANCE: 350.1 OHM OUTPUT RESISTANCE: 350.0 OHM
ZERO BALANCE: -0.220 %RO

TEST CONDITIONS

TEMPERATURE: 74 °F HUMIDITY: 37% EXCITATION: 10 VDC

TRACEABILITY

FORCE STANDARD: STD-41 NIST #: 681/280799-11 DUE: 15-MAY-2015
STANDARD INDICATOR: BRD320 NIST #: 675441
TEST INDICATOR: BRD3 NIST #: 675441

SHUNT CALIBRATION

TENSION
COMPRESSION

Shunt
(± 0.01%)
60.0 KOhm
60.0 KOhm

Output
1.45375 mV/V
-1.45331 mV/V

Straight Line
Conversion
34.769 kN
34.790 kN

Connections*
-Out to -Exc
-Out to +Exc

*For models wired with +Sense, - Sense or -SCal leads, resistor connections are actually to these leads in place of +Exc, -Exc or -Out respectively.

PERFORMANCE

	Rated Output	SEB Output	Nonlinearity	Hysteresis	SEB
TENSION	2.09098 mV/V	2.09057 mV/V	-0.035 %FS	0.010 %FS	± 0.020 %FS
COMPRESSION	-2.08881 mV/V	-2.08872 mV/V	-0.011 %FS	0.016 %FS	± 0.009 %FS

STATIC ERROR BAND (SEB) The band of maximum deviations of the ascending and descending calibration points from a best fit straight line through zero OUTPUT. It includes the effects of NONLINEARITY, HYSTERESIS, and nonreturn to MINIMUM LOAD.

TEST LOAD APPLIED (kN)	RECORDED READINGS (mV/V)	
	Tension	Compression
0	.00000	.00000
10	.41816	-.41763
20	.83616	-.83533
30	1.25412	-1.25305
40	1.67205	-1.67086
50	2.09098	-2.08881
20	.83636	-.83567
0	-.00013	-.00007

Interface Inc. certifies that force measurements are traceable to primary standards at NIST. Calibration performed per Interface QA program and the requirements of ISO/IEC 17025. Estimated measurement uncertainty is 0.050% RDG. expressed as the expanded uncertainty at 95% confidence level using a coverage factor of k=2. Results relate to load cell serial 436815 only.
DO NOT REPRODUCE THIS REPORT except in full or with Interface Inc. written approval.

TECHNICIAN: _____ Steve Lopez CALIBRATION DATE : 08-NOV-2013

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