

Long Range Indicator Calibrator

Features

Model OPTIMAR 25

- A precision, benchtop instrument, providing a wide variety of precision measuring instruments including dial and digital indicators, dial and digital comparators, dial and digital test indicators, electronic probes and gageheads, Air Probes® and jet probes, or any other devices that magnifies the linear displacemet of a contact point or measuring spindle
- MarCheck, large clearly readable LCD monochrome digital display (240x160 pixels) with background illumination with 13mm/0.512" high digits
- User selectable for either inch or metric
- Output:
 - USB interface maxed at 3GB USB thumb drive
 - USB interface for PC
 - Selectable RS232 interface
 - Includes certification of calibration

Order no. **2062722**



Technical Data

	Range	Resolution	Accuracy
Inch	1.00"	0.000005, 0.00001, 0.00005, 0.0001,0.0005, 0.001	±10µ"
Metric	25mm	0.0001, 0.0005, 0.001, 0.005, 0.01, 0.1	±0.2µm

Description	Values
Display Power	110V - 60Hz, 240V - 50Hz
Dimensions Calibrator (approx)	18"H x 6"W x 8"D 460mm x 153mm x 204mm
Readout	10"H x 7"W x 2.0"D 260mm x 180mm 50mm
Weight - Calibrator	37 lbs. / 17 kg
Weight - MarCheck	3 lbs. / 1.4 kg

Normally furnished:

Martest mounting shaft 3/8" diameter
Adapter Bushing (8mm to .375") diameter
MarCheck angle display stand

Order no.

4305875
BU-197
5350403

Also available:

Universal centering support 800b
Martest dovetail mounting shaft 4mm diameter
Foot switch for data transfer
RS232 Null Modem cable 10 feet long
Dial indicator inspection software QMSOFT®

Order no.

4305893
4305885
5360322
7024634
5350196



Long Range Indicator Calibrator



Test indicators



Long range dial indicator



Dial comparator



Digital comparator

QMSOFT Software QM-DIAL

The inspection program QMSOFT®/QM-DIAL is used for computer aided inspection of dial gages, dial indicators and dial test indicators. It was designed to support the inspection of these dial gages according to the worldwide mostly used standards. The QM-DIAL program includes a module to carry out the inspection according to the German standards (**DIN 878, DIN 879, DIN 2270**) inclusive the rules according to the **VDI/VDE/DGQ-standard**, the American standard **ANSI/ASME B89.1.10M-1987**, the British standards **BS 907 / BS 2795** and the Australian standard **AS 2103-1978**, the Korean and Japanese standards **KS B 5206, KS B 5207, KS B 5238, JIS B 7503, JIS B 7533** and the standard **JMAS 2001** and also the French standard **NF E 11-050**.

Order No. **5350196**

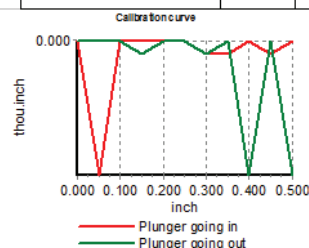
Accessories

RS232 Null Modem Cable **7024634**
Foot Switch for data transfer **5360322**

Calibration certificate	
Measurement Laboratory < customize here your name and logo >	

Gauge type: Dial gauge
Identity number: 1234
Type of gauge: Dial gauge
Measuring range: 0.500000 inch
Graduation: 0.001000 inch
Start of inspection: 0.000000 inch
End of inspection: 0.500000 inch
Inspection step: 0.050000 inch
Uncertainty: 5

Evaluation of measurements:	Parameter	Tolerance [thou.inch]	Actual values [thou.inch]	Exclusion [thou.inch]
	Deviations - one revolution	1.000	0.000	-
	Deviations - at first 2 1/2 revolutions	1.000	-0.010	-
	Deviations - 2 1/2 through 10 revolutions	2.000	0.000	-
	Discrimination error	0.330	0.010	-
	Repeatability at 25% (0.125000 inch)	0.200	0.010	-
	Repeatability at 50% (0.250000 inch)		0.000	-
	Repeatability at 75% (0.375000 inch)		0.000	-



Validation:
Inspection procedure:
Measuring uncertainty:
Inspection device and traceability:
Inspection date:
Next inspection date:

us side
Dial gauge type A (ASME)
0.4 µm + 0.9 µm x L (Length L in")
Dial Gauge Test Instrument Steinhilber Feinmess Suhr UMP No. No. 1063
Certificate number: 2010-05-24_001
Gauge block set No. 31826 Certificate number: LW - 678109001/2010-05
6/11/2013
6/25/2014