

Recalibration set for temperature and pressure calibrators

All your calibration equipment always available on board!

With dry block temperature calibrators of the TP Basic series and the pressure calibrators of the PM series, the vessel have necessary calibrated test equipment according to SOLAS and DNV on board. According to these regulations the test equipment for temperature and pressure must be recalibrated. Because of this we are able to offer our SIKA recalibration set. Including a reference thermometer MH 3710 for standard calibration requirements or MH 3750 for highest accuracy requirements. With the high temperature probe TF 650-6-300, you can measure the actual accuracy of the dry block calibrator. For precision pressure measurement we offer the SIKA pressure reference type D2. We deliver the complete equipment in a robust case including all necessary certificates.

Temperature reference MH

in combination with Temperature Sensor TF

Measuring input:	Pt100
Measuring range:	-50.00...650.0 °C
Resolution up to:	0.1 °C
Miscellaneous:	Min. / max.-memory, hold function, auto-off

MH 3710 (Standard-Set)

- Accuracy 0.3 % full scale

MH 3750 (Premium-Set)

- Integrated alarm and data logger function
- User-specific characteristic curve of sensor
- Real-time clock with day, month and year
- Measured value memory 16384
- Accuracy $< \pm 0.2$ °C

Sensor TF 650-6-300

High-precision temperature sensor suitable for MH 3710 and MH 3750 long-time temperature stable

Measuring range:	-50...650 °C
Sensor:	Stainless steel Tube D = 6 mm, L = 300 mm
Cable / Handle:	Silicone cable (1 m) with 4-pin Mini-DIN-plug

Benefits

The advantage is that the test equipment doesn't have to be returned to SIKA. It can be left on board and the crew can make the recalibration on their own. Checking the recalibration set is very easy because only the small case has to be returned once a year.

Procedures

Recalibration of temperature calibrators is done with recalibration instrument type MH 3710 or MH 3750 and temperature sensor type TF 650-6-300. Recalibration of pressure calibrators is done with recalibration instrument type D2. Every calibrator has to be calibrated to 4 measuring points. The recalibration set measures the temperatures of the heating block or the pressure of the pressure calibrator and you have to place the measured values on record.

Pressure reference type D2

High-precision digital manometer with versatile pressure measuring instrument.

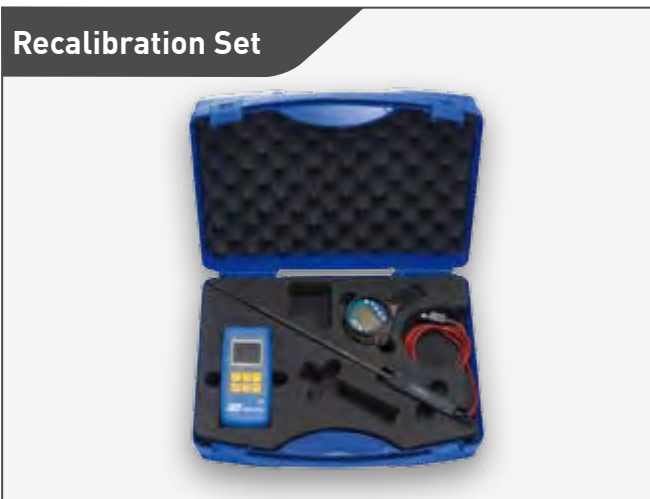
- μ C based with internal EEPROM
- DMS pressure cell
- Pressure- and temperature tested
- Min. / max.-memory, hold function, auto-off

Pressure ranges	-1...40 bar/0.01
	-1...60 bar/0.01
	0...400 bar/0.1
	0...700 bar/0.1
	0...1000 bar/0.1

Accuracy $< \pm 0.1$ % full scale

Temperature range 0...50 °C

Degree of protection IP67



Recalibration Set



Temperature Reference Sensor TF650-6-300



Pressure Reference D2



Temperature Hand Held Instrument
MH 3710 / MH 3750

	Range	Accuracy	Model	SIKA Code	ISSA-Code	
Standard recalibration set						
Set 1	650 °C	0.3% FS	Hand held instrument Temperature reference sensor Certificate temperature (2 points)	MH 3710 TF 650-6-300	EME8RCS-SET012	61.241.61
	40 bar	0.1% FS	Pressure reference Certificate pressure (2 points)	Ref D2 (40)		
	Transport case		GKK 3600-RCS			
Set 2	650 °C	0.3% FS	Hand held instrument Temperature reference sensor Certificate temperature (2 points)	MH 3710 TF 650-6-300	EME8RCS-SET022	61.241.62
	700 bar	0.1% FS	Pressure reference Certificate pressure (2 points)	Ref D2 (700)		
	Transport case		GKK 3600-RCS			
Premium recalibration set						
Set 3	650 °C	0.03% FS	Hand held instrument Temperature reference sensor Special linearisation Certificate temperature (4 points)	MH 3750 TF 650-6-300	EME8RCS-SET032	61.241.63
	40 bar	0.1% FS	Pressure reference Certificate pressure (2 points)	Ref D2 (40)		
	Transport case		GKK 3600-RCS			
Set 4	650 °C	0.03% FS	Hand held instrument Temperature reference sensor Special linearisation Certificate temperature (4 points)	MH 3750 TF 650-6-300	EME8RCS-SET042	61.241.64
	700 bar	0.1% FS	Pressure reference Certificate pressure (2 points)	Ref D2 (700)		
	Transport case		GKK 3600-RCS			

Certificates



SIKA certificates

SIKA will issue all necessary certificates so that you are able to fulfill the official requirements.

Your own test certificates

You will get an easy form to fill in your recalibration results

Examples

Test Certificate

Instrument: Pressure-Calibrator

Type: PM 40 D (40 bar)

Range: -1 up to 40 bar

Serial-No. of PM 40 D:

Used standards and devices:
Pressure Reference Type D2 (-1...40 bar)

Results:

Test Value [bar]	Reading [bar]	Deviation [bar]
-1.0		
0.0		
20.0		
40.0		

The deviations are within the specified tolerances as 1%
The test is done according to the makers procedure and carried out by authorized personal on board.

Carried out by **Date**

Name **Sign**

Please fill the gray arrays

Test Certificate

Instrument: Temperature-Calibrator

Type: TP 17 650 M

Range: ambient temperature up to 650 °C

Serial-No. of TP 17 650 M:

Used standards and devices:
Hand Held Device MH 3750
Reference Sensor GTF 650-6-300

Results:

Test Value [°C]	Reading [°C]	Deviation [°C]
100		
250		
400		
500		

The deviations are within the specified tolerances as 1 °C

Carried out by **Date**

Name **Sign**

Please fill the gray arrays