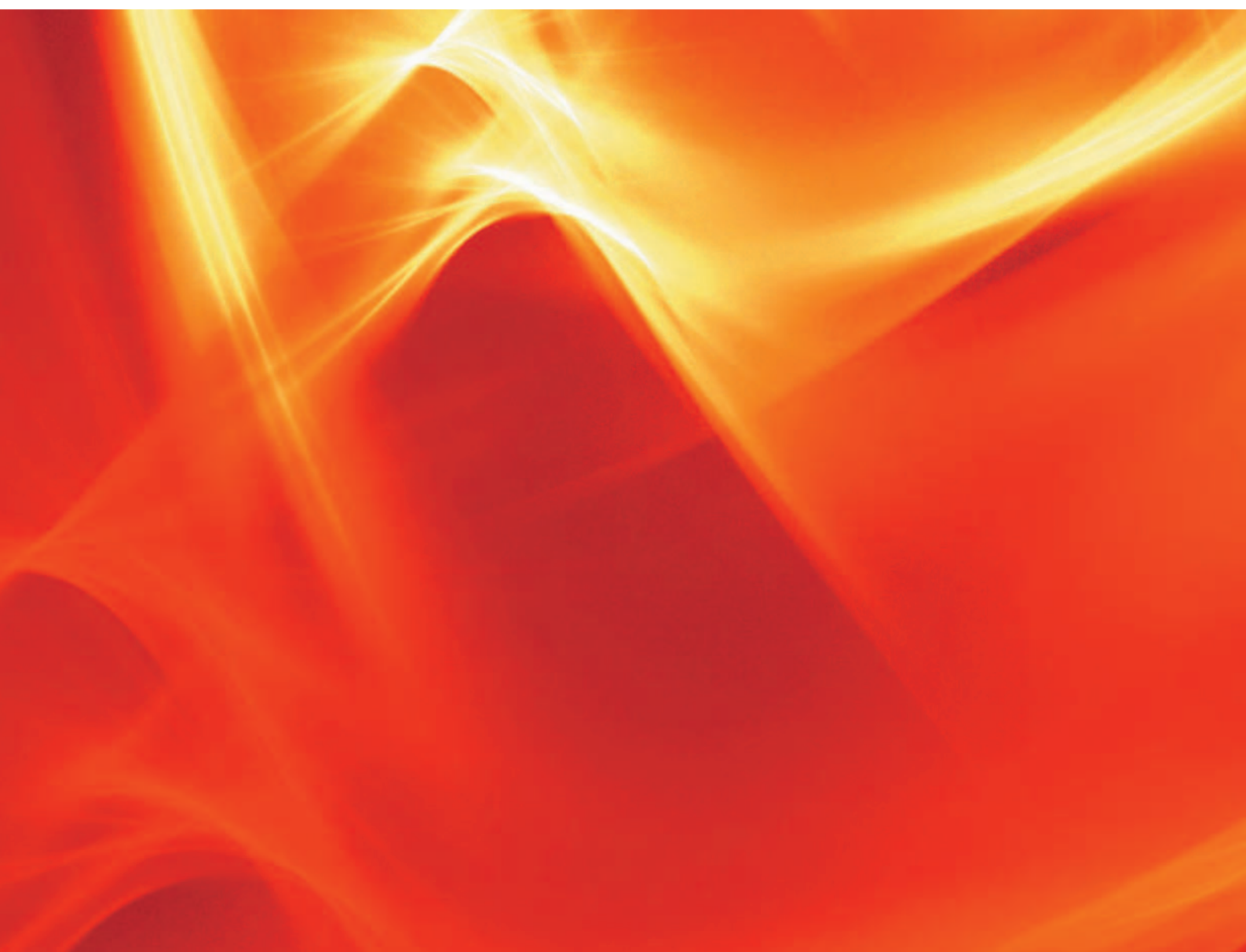


# Portable Calibration Unit



## Test and Calibration Gas Carrying Pouch

for LAMTEC Sensors and Measuring Systems

# 1 Technical Data Portable Calibration Unit

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### 1.1 Carrying Pouch for 3 Test and Calibration Gas Cylinders

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*Fig. 1-1 Pouch*

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#### Dimensions carrying pouch for 3 test and calibration gas cylinders

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Dimensions (HxWxD) [mm]/[in.]	400x380x125/15.75x14.96x4.92
Weight [kg]/[lb]	0,7/1.55
Material	Polyester

# 1 Technical Data Portable Calibration Unit

## 1.2 Test and Calibration Gas (single use)



Fig. 1-2 Test and calibration gas cylinders (single use)

### Dimensions Test and Calibration Gas Cylinders (single use) with Test Gas A, B, C

Ø [mm]/[in.]	90/3.543
High [mm]/[in.]	370/14.57
Volume [l]	1.6
Capacity [l] at 70 bar	112
Tare weight [kg]/[lb]	1.2/2.645
Pressure [bar/psi]	70/1000
Material	Aluminium ISO11118
Valve protection	Plastic cap
Valve outlet	5/82" 18 UNF C10
Gas composition	see table
Typical durability	3 years
Typical composition tolerances	± 2 %

### Test gases for test and calibration gas cylinders (single use)

Test gas	Composition		
	O <sub>2</sub> [Vol.%]	CO <sub>e</sub> [ppm]*	N <sub>2</sub> [Vol.%]
A	21	0	Rest
B	3	0	Rest
C	3	300	Rest

\* CO Equivalent CO<sub>e</sub> is the sum of all components in the exhaust gas. In test gases, it is represented by CO and H<sub>2</sub> in proportion of 2:1, e.g. 300 ppm CO<sub>e</sub> = 300ppm CO<sub>e</sub> = 200 ppm CO +100 ppm H<sub>2</sub>.

# 1 Technical Data Portable Calibration Unit

## 1.3 Flow Regulator with Test Gas Hose

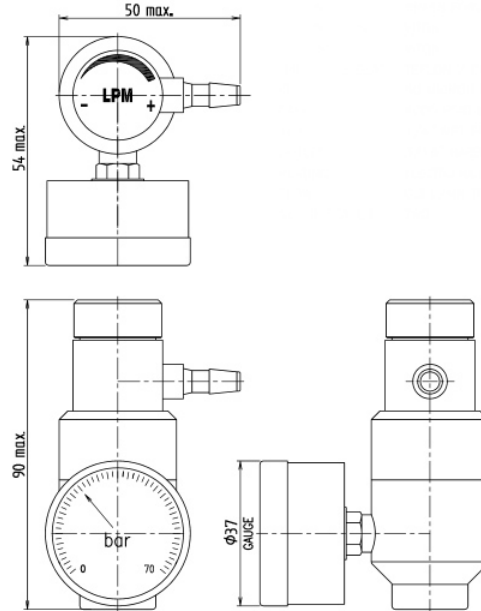


Fig. 1-3 Flow regulator with hose connection

Fig. 1-4 Dimensional drawing flow regulator

### Dimensions

Dimensions (HxWxD) [mm]/[in.]	90x50x54/3.543x1.97x2.126
Weight [kg]/[lb]	0.315/0.695
Material (Body / Gasket / Valve seat)	Chrome plated brass / Viton/ Teflon 5

### Input Data

Test gas inlet	5/8" 18 UNF C10
Test gas outlet	3/16" hose nipples
Flow (variable with 9 steps)	0,5 – 5,0 l/min
Typical accuracy (with cylinder pressures between 3,5-70 bar / 50-1000 psi)	± 12 % of measured value
Pressure range when instrument air adapter is connected (in bar/psi)	permissible: 0 ... 7/0 ...101 recommended: 3 ... 4/43 ...58

### Dimensions Test Gas Hose

Dimension (Dxd) [mm]/[in.]	6x3/0.237x0.118
Length [m]/[in.]	1/39.37
Weight [kg]/[lb]	0,03/0.062
Material	Silicone

# 1 Technical Data Portable Calibration Unit

## 1.4 Instrument Air Adapter for Flow Regulator



Fig. 1-5 Instrument air adapter for flow regulator

Dimensions Instrument Air Adapter	
Dimensions (HxWxD) [mm]/[in.]	40x22x19/1.575x0.866x0.748
Weight [kg]/[lb]	0.042/0.093
Material	Stainless steel/brass nickel-plated
Pressure range when instrument air adapter is connected (in bar/psi)	permissible: 0 ... 7/0 ...101 recommended: 3 ... 4/43 ...58

Dimensions Hose	
Dimension (Dxd) [mm]/[in.]	6x4/0.237x0.158
Length [m]/[in.]	1/39.37
Weight [kg]/[lb]	0,02/0.044
Material	PUN

## 2 Order Information

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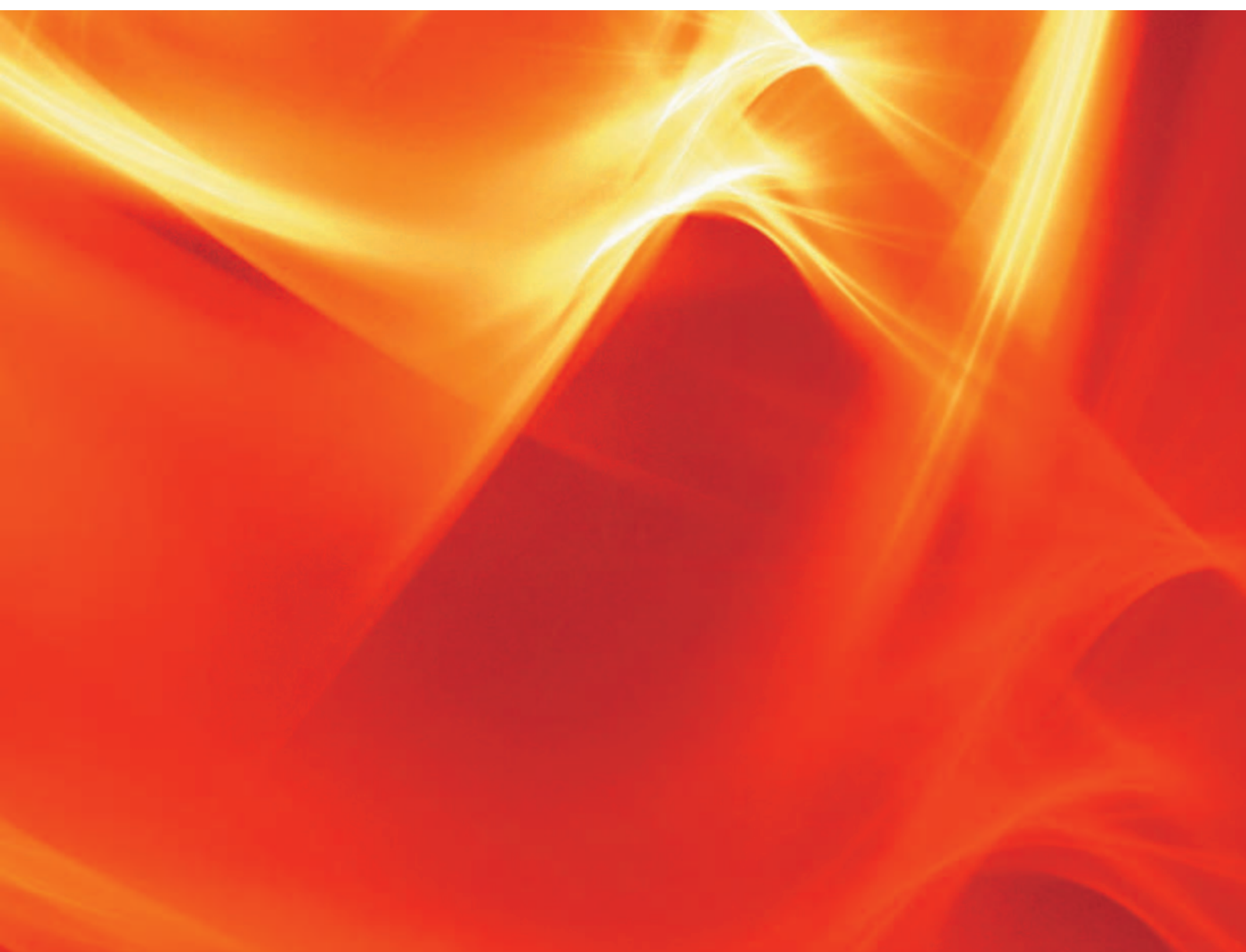
Description	Order no.
<p><b>Portable calibration unit for LS2 probe all types, as set including:</b></p> <ul style="list-style-type: none"> <li>– 1 piece bag for portable calibration unit (max. 3 disposable aluminium cylinder)</li> <li>– 1 piece flow controller with adjustable flow rate for disposable test gas aluminium cylinder</li> <li>– 1 piece instrument air adapter for flow controller</li> <li>– 1 piece test gas hose 6/3 mm/0.237x0.118 in. material silicon, length 1 m/39.37 in.</li> <li>– 1 piece Compressed air hose (6x4 mm/0.237x0.158 in., material PUN, length 1 m/39.37 in.</li> <li>– 1 piece test gas 3 % O<sub>2</sub>; balance N<sub>2</sub> in aluminium disposable cylinder 1.6 l/70 bar</li> </ul>	699R0060
<p><b>Portable calibration unit with synthetic air for LS2 probe all types, as set including:</b></p> <ul style="list-style-type: none"> <li>– 1 piece bag for portable calibration unit (max. 3 disposable aluminium cylinder)</li> <li>– 1 piece flow controller with adjustable flow rate for disposable test gas aluminium cylinder</li> <li>– 1 piece instrument air adapter for flow controller</li> <li>– 1 piece test gas hose 6/3 mm/0.237x0.118 in., material silicone, length 1 m/39.37 in.</li> <li>– 1 piece compressed air hose 6x4 mm/0.237x0.158 in., material PUN, length 1 m/39.37 in.</li> <li>– 1 piece synthetic air for offset calibration in aluminium disposable cylinder 1.6 l / 70 bar</li> <li>– 1 piece test gas 3 % O<sub>2</sub>; balance N<sub>2</sub> in aluminium disposable cylinder 1.6 l/70 bar</li> </ul>	699R0061
<p><b>Portable calibration unit for KS1/KS1D probe all types, as set including:</b></p> <ul style="list-style-type: none"> <li>– 1 piece bag for portable calibration unit (max. 3 disposable aluminium cylinder)</li> <li>– 1 piece flow controller with adjustable flow rate for disposable test gas aluminium cylinder</li> <li>– 1 piece instrument air adapter for flow controller</li> <li>– 1 piece test gas hose 6/3 mm/0.237x0.118 in. material silicone, length 1 m/39.37 in.</li> <li>– 1 piece compressed air hose 6x4 mm/0.237x0.158 in., material PUN, length 1 m/39.37 in.</li> <li>– 1 piece test gas 3 % O<sub>2</sub>; balance N<sub>2</sub> in aluminium disposable cylinder 1.6 l/70 bar</li> <li>– 1 piece test gas 3 % O<sub>2</sub>; 200 ppm CO; 100 ppm H<sub>2</sub>; balance N<sub>2</sub> in aluminium disposable cylinder 1.6 l/70 bar</li> </ul>	699R0062
<p><b>Portable calibration unit with synthetic air for KS1/KS1D probe all types, as set including:</b></p> <ul style="list-style-type: none"> <li>– 1 piece bag for portable calibration unit (max. 3 disposable aluminium cylinder)</li> <li>– 1 piece flow controller with adjustable flow rate for disposable test gas aluminium cylinder</li> <li>– 1 piece instrument air adapter for flow controller</li> <li>– 1 piece test gas hose 6/3 mm/0.237x0.118 in. material silicone, length 1 m/39.37 in.</li> <li>– 1 piece Compressed air hose 6x4 mm/0.237x0.158 in., material PUN, length 1 m/39.37 in.</li> <li>– 1 piece Synthetic air for offset calibration in aluminium disposable cylinder 1,6 l/70 bar</li> <li>– 1 piece test gas 3 % O<sub>2</sub>; balance N<sub>2</sub> in aluminium disposable cylinder 1,6 l/70 bar</li> <li>– 1 piece test gas 3 % O<sub>2</sub>; 200 ppm CO; 100 ppm H<sub>2</sub>; balance N<sub>2</sub> in aluminium disposable cylinder 1.6 l/70 bar</li> </ul>	699R0063

## 2 Order Information

### 2.1 Spare Parts

Description	Order-No.
Carrying pouch for 3 test and calibration gas cylinders	650R1017
Test and calibration gas cylinders A (Aluminium single use cylinder with test gas A: 21 Vol.% O <sub>2</sub> , Rest N <sub>2</sub> )	650R1020
Test and calibration gas cylinders B (Aluminium single use cylinder with test gas B: 3 Vol.% O <sub>2</sub> , Rest N <sub>2</sub> )	650R1022
Test and calibration gas cylinders C (Aluminium single use cylinder with test gas C: 3 Vol.% O <sub>2</sub> , 300 ppm CO <sub>e</sub> *, Rest N <sub>2</sub> )	650R1021
Flow regulator with hose connection (with adjustable flow rate for test and calibration gas cylinders.	650R1016
Test gas hose (6x3 mm/0.237x0.118 in., silicone, length 1 m/39.37 in.)	650P0726
Instrument air adapter for flow controller	650R1018
Compressed air hose (6x4 mm/0.237x0.158 in., PUN, length 1 m/39.37 in.)	657P0547

\* CO Equivalent CO<sub>e</sub> is the sum of all components in the exhaust gas. In test gases, it is represented by CO and H<sub>2</sub> in proportion of 2:1, e.g. d.h. 300 ppm CO<sub>e</sub> = 200 ppm CO + 100 ppm H<sub>2</sub>.



The information in this publication is subject to technical changes.



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