PRM-25 Test Case for Tyre Pressure Gauges

Reference test system for testing and calibration of tyre inflators

Features / special characteristics:

- Built-in precision digital pressure gauge
- Simultaneous testing of two tyre pressure gauges
- Integrated ICP 40.2 precision calibration hand pump for pressure generation up to 40 bar - if no compressed air is available on site
- Integrated compressed-air reservoir (2.5 litres), which can be used both as a buffer and as a compressed-air storage tank if no compressed-air supply is available on site (including filling valve)
- Test pressure can be adjusted with high precision to 0.001 bar using the built-in needle valve and volume adjuster
- Included filter for external compressed air
- Meets the requirements of AGME and DIN EN 12645.

The test case was specially developed for simple, practical on-site testing and calibration of tyre pressure gauges at filling stations, workshops and tyre service centres.

The German Working Committee on Measurement and Verification (AGME) recommends GM-P 4.5 (Test Procedure for Tyre Pressure Gauges for Motor Vehicles).

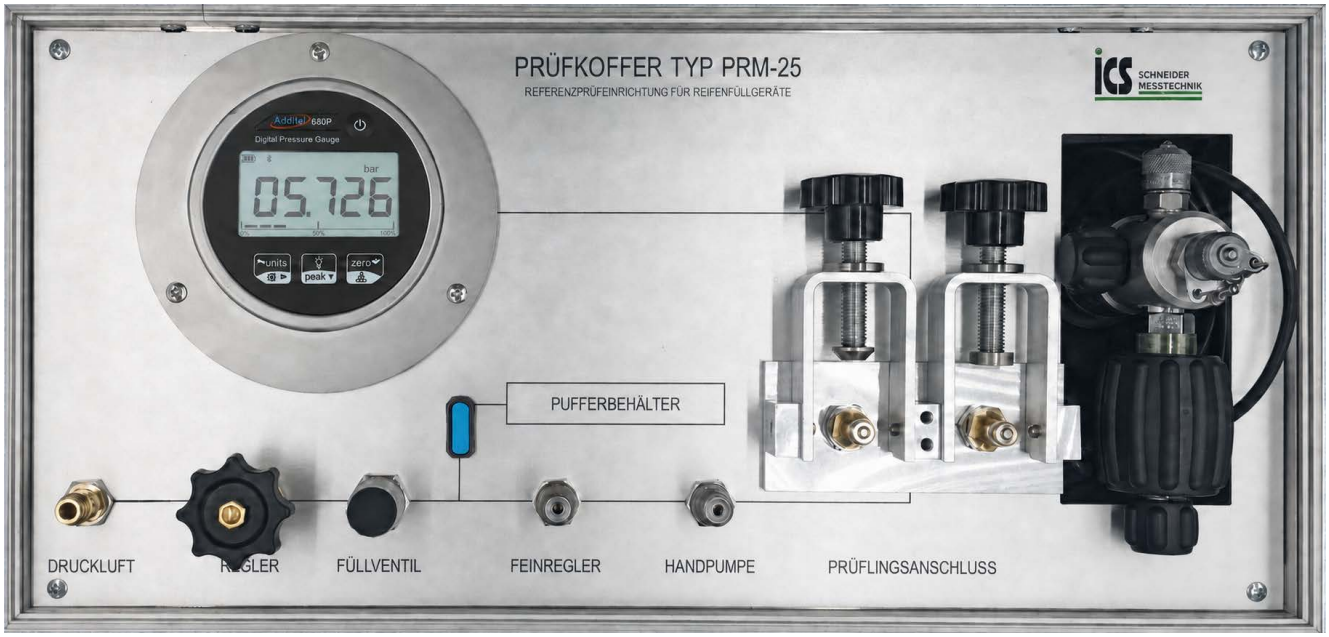
The test case contains a mobile precision calibration hand pump for -1 ... 0 ... +40 bar with fine volume adjuster and venting facility for simple, precise pressure generation, plus a separate fine volume adjuster for finely setting the test pressure (therefore independent of an external compressed-air supply).

An external compressed-air supply can be connected via a Rectus 7.2 quick coupling, with an optional upstream filter and precision pressure regulator.

The internal buffer tank can also be connected. This ensures precise fine adjustment of the pressure using the fine regulator.

Version: 08/2026 (subject to technical changes)

ICS Schneider Messtechnik GmbH
Briesestraße 59
D-16562 Hohen Neuendorf / OT Bergfelde
Tel.: 03303 / 50 40 66
Fax.: 03303 / 50 40 68
info@ics-schneider.de
www.ics-schneider.de



Front panel without fitted fine regulator

Test item connection

Filter (in lid)

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Technical data:

Measuring instrument	Precision digital pressure gauge	
	Accuracy	0.1% of full scale (standard) 0.05% of full scale (optional)
	Measuring ranges	10, 20 or 35 bar
	Overload	3 times full scale
	Resolution	1 mbar
	Display	5-digit backlit LCD (99,999 counts, 16 mm high) with percentage display
	Units	Selectable: bar, mbar, kPa, MPa, kgf/cm^2, mmH_2O, cmH_2O, psi, etc.
	Nominal diameter	Ø 92 mm
	Measuring system material	Stainless steel 316L
	Housing material	Aluminium
	Protection rating	IP67
	EMC	Immunity according to EN 50082-1; emissions according to EN 50022
	Temperature compensation	-10 ... +50°C
	Operating temperature	-20 ... +50°C
	Storage temperature	-40 ... +75°C
	Additional functions	• Selectable measuring rate, damping and averaging • Warning display if measuring range is exceeded • Integrated calibration routine • Min./max. memory
	Power supply	1 x AA battery (LR6) (≥ 320-600 hours of operation) / with automatic shut-off (adjustable to 1, 5, 15 or 30 min.) and battery capacity indicator
Interfaces	RS232 and Bluetooth	
Connections	Test item connections	2 x Airfix (tyre valve) with clamp
	Connection for hand pump	MINIMESS 1215 quick coupling
	External air inlet	Rectus 7.2 quick coupling / with optional filter
Compressed-air reservoir	2.5 litres, integrated incl. fine regulator for precise pressure setting (one fill is sufficient for several tests)	
Precision calibration hand pump ICP 40.2	For pressure generation (if no compressed-air connection is available), incl. 1 m MINIMESS 1215 hose	
Dimensions (W x H x D)	50 x 35 x 24 cm, robust aluminium industrial case with carrying handle, lockable	
Weight	approx. 10 kg	

- External power supply
- Quick couplings, adapters and hoses
- Increased accuracy (0.05% of full scale) / high-end version (0.025% of full scale)
- Data transfer software
- DAkkS calibration certificate or official verification certificate

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