

CA LV 124 SERIES

CALIBRATION SET FOR OEM LV 124 AND RELATED STANDARDS



FOR TESTS ACCORDING TO ...

- > BMW GS 95024-2-1
- > MBN LV 124-1
- > OEM LV 124
- > OEM LV 124 (2013-02)
- > VW 80000

VERIFICATION SET FOR THE PFM 200N SERIES FOR VERIFY THE PULSES E10 AND E13 OF THE LV 124 STANDARDS

The CA LV 124 set includes four load resistors for the verification of the pulses E10 and E13 of the LV 124 (2013). The load resistors CA LV124-P1R and CA LV124-P100R are used for power line verification. For verification the 16 signal and data lines the CA LV124-D1R and CA LV124-D1000R are used.

HIGHLIGHTS

- > Low inductive load resistor for direct connection into the PFM 200N Series output power plugs
- > Load resistor 1.0 ohm and 100 ohm for power lines verification
- > Load resistor 1.0 ohm and 1000 ohm for data line verification
- > High precision load resistors 1.0, 100 and 1000 ohms
- > Software procedure for verification with CA LV124 loads

APPLICATION AREAS



AUTOMOTIVE

TECHNICAL DETAILS

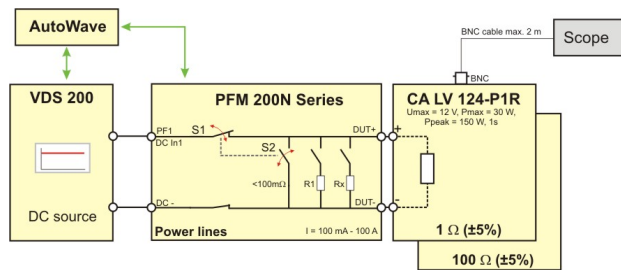
POWER LINE VERIFICATION

TEST PROCEDURE

One reference measurement each with 100 ohm ($\pm 5\%$) and 1 ohm ($\pm 5\%$) as a DUT substitute must be performed and documented. Verification of the edge steepness must be provided with this test setup. Low-inductance parts must be used as resistors.

The load resistor must have the following characteristics to achieve the required pulse parameters:

- Low Inductive Component
- Shortest possible cables (a few cm) to the PFM output
- Probe must be as near as possible to the load resistor or, as with the CA LV 124-P, using a BNC connection directly on the load.

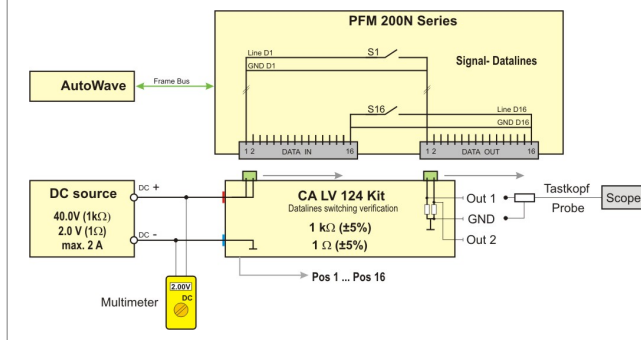


SIGNAL AND DATALINES

TEST PROCEDURE

One reference measurement each with 1 k ohm ($\pm 5\%$) and 1 ohm ($\pm 5\%$) as a DUT substitute must be performed and documented. Verification of the edge steepness must be provided with this test setup. Low-inductance parts must be used as resistors.

During the test, all even and odd I/O lines are switched alternately at the same time. With the test adapter is guaranteed that only one line is charged at each time.



SOFTWARE

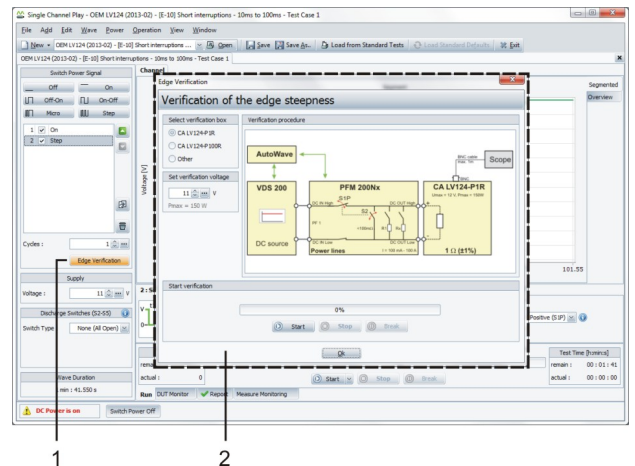
POWER LINE SETTINGS

The reference measurement can be selected by selecting Edge Verification in the software. There is a test window for call up the reference measurement settings.

1 Edge Verification:

Choose this option to perform the reference measurement.

2 Test Window for the reference measurement



SOFTWARE

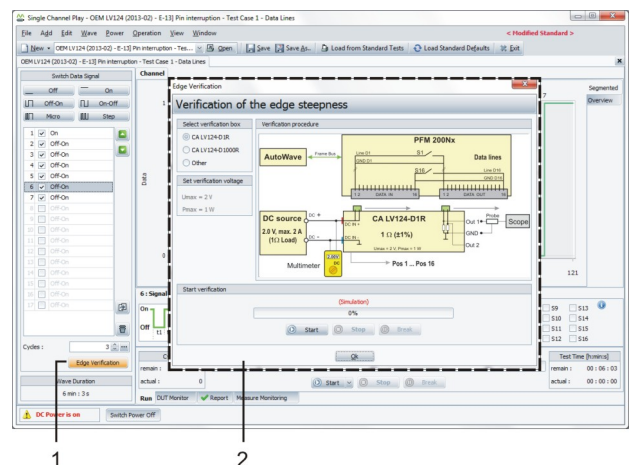
DATA LINE SETTINGS

The reference measurement can be selected by selecting Edge Verification in the software. There is a test window for call up the reference measurement settings.

1 Edge Verification:

Choose this option to perform the reference measurement.

2 Test Window for the reference measurement



TECHNICAL DETAILS

MODEL OVERVIEW

AVAILABLE CA LV 124 SETS

CA LV 124	Set for 100 A Systems
CA LV 124.1	Set for 200 A Systems

TECHNICAL DETAILS

COMPONENTS CA LV 124 SET

	Load resistors for:
CA LV124-P1R	Power lines
CA LV124-P100R	Power lines
CA LV124-D1R	Data lines
CA LV124-D1000R	Data lines
BNC cable	BNC Measuring cable 2 m, Verification power lines
Power cable	2 Cable 0.5m red/black, Verification signal- data lines

CA LV124-P1R

Line	Power lines
Resistance	1 ohm
Accuracy	± 1 %
Max. Voltage	12 V
Max. Power	30 W, 150 W, 1 s peak
Dimension	185 mm x 105 mm x 58 mm
Weight	1.05 kg

CA LV124-P100R

Line	Power lines
Resistance	100 ohm
Accuracy	± 1 %
Max. Voltage	100 V
Max. Power	30 W, 100 W, 1s peak
Dimension	185 mm x 105 mm x 58 mm
Weight	0.90 kg

TECHNICAL DETAILS

CA LV124-D1R

Line	Data lines
Resistance	1 ohm
Accuracy	± 2 %
Max. Voltage	2.0 V
Max. Power	1 W, 4 W, 1 s peak
Dimension	120 mm x 65 mm x 40 mm
Weight	0.15 kg

CA LV124-D1000R

Line	Data lines
Resistance	1,000 ohm
Accuracy	± 2 %
Max. Voltage	40.0 V
Max. Power	1 W, 4 W, 1 s peak
Dimension	120 mm x 65 mm x 40 mm
Weight	0.15 kg

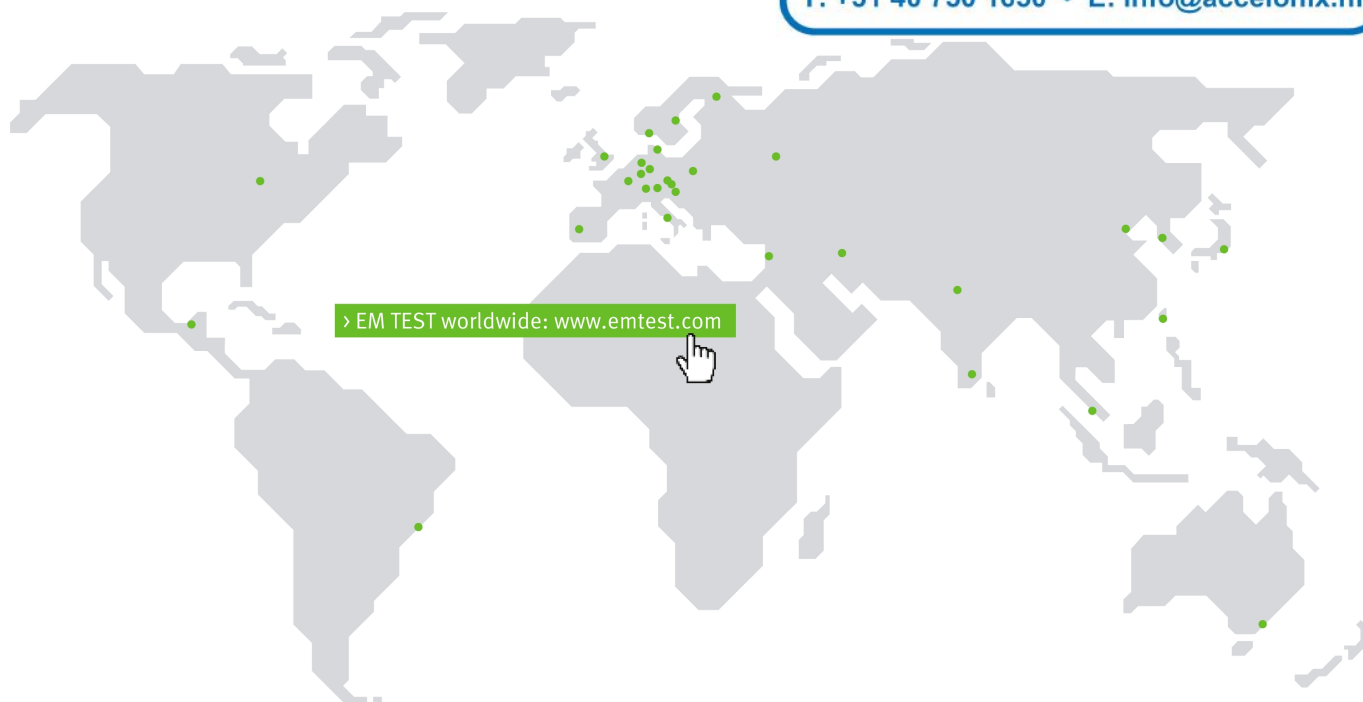
GENERAL DATA

GENERAL DATA

Reference temperature	23 °C ±5 °C
Temperature	10 °C to 35 °C
Humidity	25 % to 75 %, non condensing
Atmospheric pressure	86 kPa (860 mbar) to 106 kPa (1 060 mbar)

COMPETENCE WHEREVER YOU ARE

Accelonix BV
 Luchthavenweg 18b • NL-5657 EB •
 Eindhoven • The Netherlands •
 T: +31 40 750 1650 • E: info@accelonix.nl



CONTACT EM TEST DIRECTLY

Switzerland

EM TEST (Switzerland) GmbH > Sternenhofstraße 15 > 4153 Reinach > Switzerland
 Phone +41 (0)61/7179191 > Fax +41 (0)61/7179199
 Internet: www.emtest.ch > E-mail: sales.emtest@ametek.com

Germany

AMETEK CTS Germany GmbH > Lünener Straße 211 > 59174 Kamen > Deutschland
 Phone +49 (0)2307/26070-0 > Fax +49 (0)2307/17050
 Internet: www.emtest.com > E-mail: info.cts@ametek.de

France

EM TEST FRANCE > Le Trident - Parc des Collines > Immeuble B1 - Etage 3 > 36, rue Paul Cézanne > 68200 Mulhouse > France
 Phone +33 (0)389 31 23 50 > Fax +33 (0)389 31 23 55
 Internet: www.emtest.fr > E-mail: info@emtest.fr

Poland

EM TEST Polska > ul. Ogrodowa 31/35, 00-893 Warszawa > Polska
 Phone +48 (0)518 64 35 12
 Internet: www.emtest.com/pl > E-mail: infopolska.emtest@ametek.com

USA / Canada

AMETEK Compliance Test Solutions > 52 Mayfield Ave. > Edison > NJ 08837
 Phone +1 (732) 417-0501
 Internet: www.emtest.com > E-mail: sales.emtest@ametek.com

P.R. China

E & S Test Technology Limited > Rm 913, Leftbank >
 No. 68 Bei Si Huan Xi Lu > Haidian District > Beijing 100080 > P.R. China
 Phone +86 (0)10 82 67 60 27 > Fax +86 (0)10 82 67 62 38
 Internet: www.emtest.com > E-mail: info@emtest.com.cn

Republic of Korea

EM TEST Korea Limited > #405 > WooYeon Plaza > #986-8 > YoungDeok-dong > Giheung-gu > Yongin-si > Gyeonggi-do > Korea
 Phone +82 (31) 216 8616 > Fax +82 (31) 216 8616
 Internet: www.emtest.co.kr > E-mail: sales@emtest.co.kr

Information about scope of delivery, visual design and technical data correspond with the state of development at time of release. Subject to change without further notice.