

Type Approval Certificate



This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. 12 282 - 98 HH

Company Gossen Müller & Weigert
ZN der General Elektronik GmbH Magdeburg
Kleinreuther Weg 88
90408 Nürnberg, GERMANY

Product Description Panel Meters according to DIN 43 700

Type DE48, DE 72, DE 96, DG48, DG 72, DG 96, DS 48, DS 72, DS 96, DQS 96E
FM 48, FM 72, FM 96, LF 96, LM 96, LM 96-250

Environmental Category C, EMC 1

Technical Data /
Range of Application Moving coil indicator, type:
DS 48, ranges: 1mA to 25 A DC or 1 V to 600 V DC or separate shunt
DS 72 / 96, ranges: 1mA to 60 A DC or 1 V to 600 V DC or separate shunt
Moving coil indicator with rectifier, type:
DG 48 / 72 / 96, ranges: 1.2 A or 6 A AC, 60 V to 600 V AC or separate CT or PT
Moving iron indicator, type:
DE 48, ranges: 1 A to 25 A AC or 120 V to 600 V AC or separate CT or PT
DE 72 / 96, ranges: 1 A to 100 A AC or 120 V to 600 V AC or separate CT or PT
FM 48 / 72 / 96, Pointer frequency meter. Ranges from 15 Hz to 440 Hz
Dqs 96 E, LM 96: power meter, for 2 to 4 conductor system, CT .../1 A or .../5A
LM 96-250: power meter, for 2 to 4 conductor system, CT .../1 A or .../5A
LF 96: power factor meter, cap.0.5 - 1 - 0.5 ind., CT .../1 A or .../5A
Class: 1.5 and 0,5 to 1,5 for pointer frequency meter.
Degree of protection: IP 52 (front), option: IP54 (front)
Casing: Polycarbonate UL 94 VO
Option: steel case (not Dqs 96 E, LM96, LM96-250, DS48, DG48, DE48, FM 48)

Test Standard Guidelines for the Performance of Type Approvals, Chapter 2, Edition 2003

Documents Test report : BER-GL 00.DOC to GL 13.DOC; Ber_GL_FM Version 02, 18.05.00
Catalogue 2000 Analog Panel Meters Standard program / Universal program, Data
sheet E1/26; Circ. diagram:D1B, D1W, E1B, E1W, D2B, D2W, V1B, V1W, V3B, V3W,
BN2.239.391, 2-583-569-5

Remarks None

Valid until 2013-07-20

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Hamburg, 2008-07-30

Type Approval Symbol



Germanischer Lloyd

Jürgen Wittburg

Burkhard Lilienthal