



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
Page 1 of 1	Type Approval Symbol
File No. I.J.04	
Hamburg, 2008-07-30	

Germanischer Lloyd

J. Wittburg
Jürgen Wittburg

B. Lilienthal
Burkhard Lilienthal