



DMG900



DMG900T



DMG900RD



EXP1000

**Flush mounting expandable digital multimeters (96 x 96 mm)**

- Graphic touch-screen LCD display for extremely simple interaction
- Rear expansion slots accept plug-in modules suitable for numerous applications
- True RMS measurements of voltage and current values

**Main measurements and functions :**

- Voltage: phase, phase-neutral and ground neutral-earth
- Current: phase values
- Neutral current calculated and true values
- Power: apparent, active and reactive phase and total values
- P.F. Power Factor per phase and total
- Cosφ per phase
- Frequency of measured voltage value
- Voltage and current asymmetry
- Total harmonic distortion (THD) of voltage and current
- Harmonic analysis of voltage and current up to the 63° order
- HIGH-LOW-AVERAGE value functions for all measurements
- Maximum demand of power and current values
- Energy meters with programmable tariff functions
- Hour counter for programmable total and partial hours
- Pulse counter for consumption of water, gas, etc., (only with expansion module)
- Energy quality analysis to EN 50160 (only with expansion module)

type	description	expansion slots
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**DMG900 series** *Graphic touch-screen LCD display*

- Auxiliary power supply: 100 - 440 VAC /110 - 250 VDC
- Input current: CT - 1A or 5A
- Voltage measurement: 20 - 830 VAC L-L / 10 - 480 VAC L-N
- Accuracy:
  - voltage/current ±0.2%
  - power/power factor ±0.5% f.s.
  - frequency ±0.05%
  - active energy Class 0.5S (IEC/EN 62053-22)
  - reactive energy: Class 2 (IEC/EN 62053-23)

<b>DMG900</b>	panel mount power analyser	4
<b>DMG900D048</b>	(as above but with 9 - 70 VDC supply)	4

**DMG900T** *DIN rail mount measurement transducer (expandable)*

DIN rail mounting measurement transducer for chassis mounting, incorporating 4 expansion slots to accommodate expansion modules for added I/O's or communication requirements.

<b>DMG900T</b>	panel mount power analyser	4
<b>DMG900TD048</b>	(as above but with 9 - 70 VDC supply)	4

<b>DMG900RD</b>	remote panel mount (96 x 96 mm) touch screen display for above DMG900T	
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**Expansion modules and accessories for DMG700/800/900 (up to 4 per meter)**

**Inputs and outputs**

- EXP1000** 4 digital opto-isolated inputs
- EXP1001** 4 static opto-isolated outputs
- EXP1002** 2 digital inputs and 2 static outputs, opto-isolated
- EXP1003** 2 output relays (5A 250 VAC)
- EXP1004** 2 analog opto-isolated inputs 0/4 -20mA or 0-5/10V (only for DMG800/900)
- EXP1005** 2 analog opto-isolated outputs 0/4 -20mA or 0-5/10V (only for DMG800/900)

**Communication ports**

- EXP1010** opto-isolated USB interface
- EXP1011** opto-isolated RS232 interface
- EXP1012** opto-isolated RS485 interface
- EXP1013** opto-isolated Ethernet interface
- EXP1014** opto-isolated Profibus-DP interface (only for DMG800/900)
- EXP1015** GPRS/GSM modem without antenna
- EXP1030** data storage, clock-calendar (RTC) with backup for data logging
- EXP1031** as above with energy quality (EN 50160) (only for DMG900/900T)

**Software and accessories for DMG300/700/800/900**

- C2** PC - RS232 connecting cable (1.8m)
- C5** RS232 analog modem cable (1.8m)
- C9 cable** PC - analog modem cable (1.8m)
- CX03** GSM Quad-band antenna for EXP1015 (850/900/1800/1900/2100MHz)