

**Type test of
electrical apparatus for the detection and measurement of
toxic and combustible gases in car parks and tunnels acc.
EN 50545-1:09.2011**

Manufacturer / Contractor:	MSR-Electronic GmbH Würdingerstr. 27+27a D-94060 Pocking
Product:	Electrical Apparatus for the detection and measurement of carbon monoxide and nitrogen oxides in car parks and tunnels.
Type designation:	DGC-06 control panel Gas detector SC2-E1110-F (CO), SC2-E1130-C (NO ₂), MC2-X-E1110-F (CO), MC2-X-E1130-C (NO ₂), MSC2
Test subject:	Control and monitoring system for car parks and tunnels.
Technical data:	Technical details see on clause 2
Max. working temperature :	-5 °C to +40 °C
Power:	110 – 230 V AC 50/60Hz / 24 V DC
Output:	Max. 32 Relays 250 V AC / 5 A
IP Protection:	IP 65
Sensors:	Gas detector SC2... and MC2... CO and NO ₂
Measurement range:	0 – 300ppm CO and 0 – 30ppm NO ₂
Measurement principle:	Diffusion
IP Protection:	IP65
Test requirements:	EN 50545-1:09.2011
Test cause:	Type test for approval.
Test result:	The tested specimen meets the above mentioned test requirements with below mentioned restrictions.
Remark / Restrictions:	The SIL 1 requirements were provided with report: 968/FSP 1286.00/16 (see annex A37). The minimum requirements of CO measurement systems acc. VDI 2053 are fulfilled with the clauses of EN 50545-1. The plausibility of the EMC measurement results, by the TH Deggendorf, could not be confirmed due to lack of calibration reports.

Dated in Cologne, 10.06.2016
968/wi

Test Centre for Energy Appliances

Inspector

Report released after review

D. Wilczek


Dipl.-Ing. W. Rückwart