

6.3.8 Low Level Outputs "LL out" for External Amplifiers

Note: The low-level outputs "LL out 7 - 12" are only available, if the option *LLO-2* is installed.

Both SELV interface connectors "LL out 1 - 6" as well as the optional "LL out 7 - 12" (if applicable) hold two independent generator triples each. These six high accuracy analog signal sources per connector can serve to either control an external amplifier or to directly provide small signal outputs.

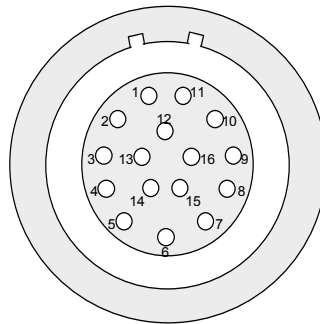
In addition, each SELV interface connector provides a serial digital interface (pins 8-16; see below) that transmits control and monitor functions between the *CMC 256plus* and the external amplifiers. Supported devices are the *CMA 156*, *CMA 56*¹, *CMS 156*, *CMS 251*¹ and *CMS 252*¹.

The low level outputs are short-circuit-proof and continually monitored for overload. They are separated through reinforced insulation from the power input and from the load outputs (SELV interface). They deliver calibrated signals in the range from 0 to 7 V_{eff} nominal (0 to $\pm 10 V_{peak}$).

Both the selection of the particular amplifier as well as the specification of the range of the amplifier takes place in the *Test Universe* software.

Table 6-11:
Pin assignment of
"LL out 1-6" (lower 16-pole
Lemo socket); view onto
the connector from the
cable wiring side

The pin assignment of
"LL out 7-12" socket is
identical.



Pin	Function LL out 1-6	Function LL out 7-12
1	LL out 1	LL out 7
2	LL out 2	LL out 8
3	LL out 3	LL out 9
4	Neutral (N) connected to GND	
5	LL out 4	LL out 10
6	LL out 5	LL out 11
7	LL out 6	LL out 12
8-16	For internal purposes	
Housing	Screen connection	

"LL out 1-3" and "LL out 4-6" (and optionally "LL out 7-9" and "LL out 10-12") each make up a selectable voltage or current triple.

1. These products are not available anymore.