

# DAC-8 for imc CRONOS-SL (CRSL/DAC-8)

## 8 Analog Control Signals

DAC-8, which enables analog output of up to 8 analog values, is a modular plug-in for imc CRONOS *compact* and available as a configuration module for CRONOS-SL. The outputs can be defined as the results of calculations performed by imc Online FAMOS on data from combinations of measurement channels.

### Highlights

- $\pm 10$  V level at max.  $\pm 10$  mA driver strength
- 16-bit resolution
- ensured startup level 0 V without undefined transient states
- short-circuit proof against ground

### Overview of the available variants

Order Code	article no.	Remarks
CRSL/DAC-8-D	11800075	variant with DSUB-15
CRSL/DAC-8-L	11800076	variant with LEMO sockets

### Included accessories

Documents
Getting started with imc CRONOS <i>compact</i> & imc CRONOS-SL (one copy per delivery / system)
Device certificate

### Optional accessories

IP65 DSUB-15 plug		
ACC/DSUBM-DAC4-IP65	DSUB-15 plug with screw terminals for 4-channel groups	13500223

## Technical Specs - CRSL/DAC-8

Parameter	Value typ.	min. / max.	Remarks
Outputs	8		
Output level	±10 V		
Load current		max. ±10 mA	short circuit protection
Resolution	16 bit		
Linearity		max. 4 LSB	14-bit no missing codes
Max. output rate	50 kHz		with CRC, CRSL
Analog bandwidth	50 kHz		-3 dB, low pass 2nd order
Accuracy	±4 LSB (16 bit)		25°C
Offset error	<10 mV	<17 mV	25°C
Offset drift	0.06 mV / K		
Total offset error		<20 mV	over entire temperature range
Gain error	<0.29 %		25°C
Gain drift	25 ppm / K		
Total gain error		<0.8 %	over entire temperature range
Isolation impedance	500 k    1 nF		
Internal reference ground	AGND		all channels with one common, galvanically connected reference ground
External reference ground	CHASSIS, metal housing		DAC outputs as one unit (8 channels), galvanically isolated from housing
Terminal connection	DSUB-15		standard