DO-16 for imc CRONOS-SL (CRSL/DO-16)

16 Digital Outputs

The modular plug-in DO-16 for imc CRONOS*compact* (or configuration module for imc CRONOS-SL) offers 16 isolated driver-capable control signals. The signal states can be derived mathematically from channel measurement data by imc Online FAMOS, or influenced by means of imc CRONOS-SL/*compact*'s trigger machine. This makes it possible to realize control functions using the simplest methods.

Overview of the available variants

Order Code	article no.	Remarks
CRSL/DO-16-D	11800093	with DSUB-15 sockets

Included accessories

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

Optional accessories

IP65 DSUB-15 plugs		
ACC/DSUBM-DO8-IP65	15-pin DSUB plug for 8 digital outputs	13500220

Technical Specs - CRSL/DO-16

Parameter	Value typ.	min. / max.	Remarks
Channels	16		two 8-bit groups, isolated, common reference potential ("LCOM") for a group
Terminal connection	DSUB-15		ACC/DSUB-DO8
Isolation strength	±50 V		to system ground (protection ground)
Output configuration	totem pole (push pull) *or* open-drain		configurable with wire jumper ("ODRN" - "LCOM") in the connector pod
State following system start	High resistance (high-Z)		Independent of output configuration (OPDRN-pin)!
Activation of the output stage following system start	upon first preparation of measurement		with initial states which can be adjusted in the experiment (High / Low) in the selected output configuration (OPDRN-pin)
Output level	TTL *or* max. U_{ext} -0.8 V		internal isolated supply voltage by means of connecting an external supply voltage U_{ext} with "HCOM", U_{ext} = 5 V to 30 V
Max. output current (typ.) TTL 24 V-logic open-drain open-drain with intern. 5 V supply	*HIGH* 15 mA 22 mA ---	*LOW* 0.7 A 0.7 A 0.7 A 20 mA	external inverse diode needed with inductive load
Output voltage TTL 24 V-logic (U_{ext} = 24 V)	*HIGH* >3.5 V >23 V	*LOW* 0.5 Ω · I_{low} 0.5 Ω · I_{low}	with load current: I_{high} = 15 mA, I_{low} ≤0.7 A I_{high} = 22 mA, I_{low} ≤0.7 A
Internal supply voltage available at contacts	5 V, 160 mA isolated		per 8-bit group; VCC_int = 5 V
Switching time	<165 µs		