

DO-16 for imc CRONOScompact (CRC/DO-16)

16 Digital Outputs

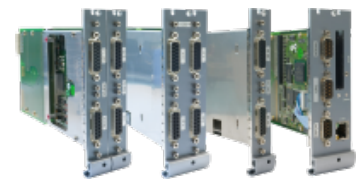
The modular plug-in DO-16 for imc CRONOS*compact* offers 16 isolated driver-capable control signals. The signal states can be derived mathematically from channel measurement data by imc Online FAMOS, or influenced by means of imc CRONOS*compact*'s trigger machine. This makes it possible to realize control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

imc CRONOS*compact*- modular measurement system

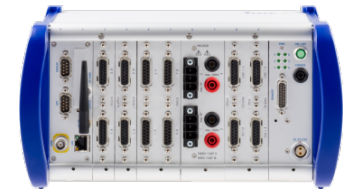
imc CRONOS*compact* is a modular and reconfigurable hardware a "rack"-based series of devices available in a variety of housing sizes and device frames. imc CRONOS*compact*(CRC) plug-in-modules can be inserted into the system (CRC-400GP).

Once the modules are plugged into a portable or rack-based housing, they are electrically connected to the CRC-system and are supplied by the system with power. The data storage will be managed by the CRC-system.

Rack-based modules ("-R") differ from the standard modules only in terms of the front panel's attachment mechanism.



imc CRONOScompact plug-in-modules



imc CRONOScompact portable housing

Overview of the available variants

Standard version		ET Version *	
Order Code	article no.	article no.	Remarks
CRC/DO-16	11700063	11710037	for imc CRONOS <i>compact</i>
CRC/DO-16-R	11700126	11710085	for imc CRONOS <i>compact</i> RACK

Included accessories

DSUB-15 plug		
2x ACC/DSUBM-DO8	15-pin DSUB plug for 8 digital outputs	13500173

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

* ET: Version in extended temperature range

Technical Specs - CRC/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	<i>HIGH</i> 15 mA 22 mA ---	<i>LOW</i> 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)	<i>HIGH</i> >3.5 V >23 V	<i>LOW</i> 0.5 · I_{low} 0.5 · I_{low}	with load current: $I_{high} = 15$ mA, $I_{low} \leq 0.7$ A $I_{high} = 22$ mA, $I_{low} \leq 0.7$ A
Internal supply voltage available at contacts	5 V, 160 mA isolated		per 8-bit group; $VCC_{int} = 5$ V
Switching time	<165 μ s		