DI2-16 for imc CRONOS-SL/compact

16 digital inputs

The plug-in module DI2-16 for imc CRONOS*compact* (or configuration module for CRONOS-SL) provides sampling of digital inputs having TTL/CMOS or 24 V logic levels. The level can be set separately for each group of eight inputs. The groups are jointly isolated from the system.

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-400 / CRC-2000G).

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/DI2-16	11700065	11710039	for imc CRONOS*compact*
CRC/DI2-16-R	11700128	11710087	for imc CRONOS*compact* RACK
CRSL/DI2-16-D		11800xxx	CRONOS-SL variant with DSUB-15

Included accessories for imc CRONOS*compact*:

- 2x ACC/DSUBM-DI4-8, 15-pin DSUB connectors for each 8 bits

Optional accessories:

- ACC/DSUBM-DI4-8-IP65, 15-pin DSUB clamp terminal adapted to CRONOS-SL for each 8-bit group

* ET: Version in extended temperature range

DI2-16 analog inputs

Parameter	Value typ.	min. / max.	Remarks
Channels	16		groups of 4 Bit with common ground reference, galvanic isolation between groups
Input voltage level	TTL 24 V		configurable globally for 8 Bit at DSUB using the "LEVEL" pin: "LEVEL": Jumper to "LCOM" "LEVEL": unconnected
Input configuration	differential		groups of 4 Bit galvanic isolation between groups of 4 Bit
Isolation strength	±150 V		to system ground (housing, CHASSIS, PE) and between groups of 4 Bit (tested ±200 V)
Switching time HIGH-LOW LOW-HIGH	 34 µs 3 µs	 130 µs 30 µs	edge detection; over entire temperature range
Additional system delay	typ. 400 µs ± 100 µs		delay from input transition to changing state available in imc Online FAMOS
Input current		max. 500 µA	
Switching threshold TTL (5 V) 24 V	 V_{Lmax} = 0.8 V V_{Lmax} = 5.0 V	 V_{Hmin} = 2.0 V V_{Hmin} = 8.0 V	
Internal supply voltage, available at user pin "HCOM"	5 V max. 100 mA		isolated reference ground of both "HCOM" and "LEVEL" is "LCOM"
Terminal connection	DSUB-15 / 8 Bit		ACC/DSUBM-DI4-8