DI2-16 for imc CRONOScompact (CRC/DI2-16)

16 digital inputs

The plug-in module DI2-16 for imc CRONOS*compact* 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-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/DI2-16	11700065	11710039	for imc CRONOS*compact*	
CRC/DI2-16-R	11700128	11710087	for imc CRONOS*compact* RACK	

Included accessories

DSUB-15 plug		
2x ACC/DSUBM-DI4-8	15-pin DSUB plug for each 8 bits	13500174

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

Optional accessories

IP65 DSUB-15 plugs		
ACC/DSUBM-DI4-8-IP65	15-pin DSUB plug for each 8 bits	13500221

* ET: Version in extended temperature range

Technical Specs - CRC/DI2-16

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