

HEIDENHAIN

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ND 7000 Operating Instructions Milling

Digital Readout

English (en) 01/2020



Specifications

19.1 Overview

This chapter contains an overview of the product data and drawings with the product dimensions and mating dimensions.

19.2 Product data

Device					
Housing	Aluminum cast housing				
Housing dimensions	200 mm x 169 mm x 41 mm				
	For devices with ID 1089179-xx:				
	200 mm x 169 mm x 47 mm				
Fastener system, mating dimensions	Mounting hole pattern 50 mm x 50 mm				
Display					
Visual display unit	 LCD Widescreen (15:9) color screen 17.8 cm (7") 800 x 480 pixels 				
Display step	Selectable, min. 0.00001 mm				
User interface	User interface (GUI) with touchscreen				
Electrical data					
Supply voltage	■ AC 100 V 240 V (±10 %)				
	■ 50 Hz 60 Hz (±5 %)				
	max. input power 38 W				
Buffer battery	Lithium battery type CR2032; 3.0 V				
Overvoltage category	II				
Number of encoder inputs	3				
Encoder interfaces	 1 V_{PP}: max. current 300 mA; max. input frequency 400 kHz 				
	11 µA _{PP} : Maximum current 300 mA;				
	maximum input frequency: 150 kHz				
	EnDat 2.2: max. current 300 mA				
Interpolation at 1 V _{PP}	4096-fold				
Touch probe connection	Voltage supply DC 5 V or DC 12 V				
	5 V or floating switching output				
	Four digital inputs: TTL DC 0 V +5 V				
	 One digital output TTL DC 0 V +5 V Maximum load 1 k Ω 				
	 Max. cable length with HEIDENHAIN cable 30 m 				

Electrical data						
Digital inputs	For devices with ID 1089179-xx:					
	Level	Voltage range	Current range			
	High	DC 11 V 30 V	2.1 mA 6.0 mA			
	Low	DC 3 V 2.2 V	0.43 mA			
Digital outputs	For devices with ID 1089179-xx:					
	Voltage range DC 24 V (20.4 V 28.8 V)					
Belay outputs	Ear devices with ID 1089179 vv.					
	 Max_switching voltage AC 30 V / DC 30 V 					
	 Max. switching current 0.5 A 					
	 Max. switching capacity 15 W 					
	 Max. continuous current 0.5 A 					
Analog inputs	For devices with ID 1089179-xx:					
	Voltage range DC 0 V +5 V Resistance 100 $\Omega \le$ R \le 50 k Ω					
Analog outputs	For devices with ID 1089179-xx:					
	Voltage range DC –10 V +10 V Maximum load 1 k Ω					
5 V voltage outputs	For devices with ID 1089179-xx:					
	Voltage tolerance ±5 %, maximum current 100 mA					
Data interface	 1 USB 2.0 Hi-Speed (Type A), maximum current 500 mA 					
	■ 1 Eth	ernet 10/100 Mbit/1 (Gbit (RJ45)			
Environment						
Operating temperature	0 °C +45 °C					
Storage temperature	–20 °C +70 °C					
Relative air humidity	10 % 80 % RH, non-condensing					
Altitude	≤ 2000 m					
General information						
Directives	EMC Directive 2014/30/EU					
	Low '	Voltage Directive 201	4/35/EU			
	RoHS	S Directive 2011/65/E	U			
Pollution degree	2					
Protection EN 60529	FrontRear	panel and side panel panel: IP 40	ls: IP 65			
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General information	
Mass	■ 1.3 kg
	With Single-Pos stand: 1.35 kg
	With Duo-Pos stand 1.45 kg
	With Multi-Pos stand: 1.95 kg
	With Multi-Pos holder: 1.65 kg
	For devices with ID 1089179-xx:
	■ 1.5 kg
	With Single-Pos stand: 1.55 kg
	With Duo-Pos stand 1.65 kg
	With Multi-Pos stand: 2.15 kg
	With Multi-Pos holder: 1.85 kg

19.3 Product dimensions and mating dimensions

All dimensions in the drawings are in millimeters.



Figure 63: Housing dimensions for productswith ID 1089178-xx



Figure 64: Housing dimensions for devices with ID 1089179-xx



Figure 65: Dimensions of the rear panel for devices with ID 1089178-xx



Figure 66: Dimensions of the rear panel for devices with ID 1089179-xx

19.3.1 Product dimensions with Single-Pos stand



Figure 67: Product dimensions with Single-Pos stand