



POSITIP 8000

Operating Instructions
Milling

Digital Readout

19

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 milled housing
Housing dimensions	314 mm x 265 mm x 36 mm
Fastener system, mating dimensions	VESA MIS-D, 100 100 mm x 100 mm

Display

Visual display unit	<ul style="list-style-type: none"> ■ LCD widescreen (16:10) color screen 30.7 cm (12.1") ■ 1280 x 800 pixels
Display step	Selectable, min. 0.00001 mm
User interface	User interface (GUI) with touchscreen

Electrical data

Supply voltage	<ul style="list-style-type: none"> ■ AC 100 V ... 240 V (± 10 %) ■ 50 Hz ... 60 Hz (± 5 %) ■ For devices with ID 1089176-xx: max. input power 38 W ■ For devices with ID 1089177-xx: max. input power 79 W
Buffer battery	Lithium battery type CR2032; 3.0 V
Overvoltage category	II
Number of encoder inputs	Milling application mode: 4 (2 additional inputs can be enabled via software option) Turning application mode: 4
Encoder interfaces	<ul style="list-style-type: none"> ■ 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	<ul style="list-style-type: none"> ■ Voltage supply DC 5 V or DC 12 V ■ 5 V or floating switching output ■ Max. cable length with HEIDENHAIN cable 30 m

Electrical data

Digital inputs	TTL DC 0 V ... +5 V									
	<table> <thead> <tr> <th>Level</th> <th>Voltage range</th> <th>Current range</th> </tr> </thead> <tbody> <tr> <td>High</td> <td>DC 11 V ... 30 V</td> <td>2.1 mA ... 6.0 mA</td> </tr> <tr> <td>Low</td> <td>DC 3 V ... 2.2 V</td> <td>0.43 mA</td> </tr> </tbody> </table>	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
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	TTL DC 0 V ... +5 V Maximum load 1 k Ω Voltage range DC 24 V (20.4 V ... 28.8 V) Output current max. 150 mA per channel									
Relay outputs	For devices with ID 1089177-xx: <ul style="list-style-type: none"> ■ 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 1089177-xx: Voltage range DC 0 V ... +5 V Resistance 100 Ω \leq R \leq 50 k Ω									
Analog outputs	For devices with ID 1089177-xx: Voltage range DC -10 V ... +10 V Maximum load 1 k Ω									
5 V voltage outputs	Voltage tolerance ± 5 %, maximum current 100 mA									
Data interface	<ul style="list-style-type: none"> ■ 4 USB 2.0 Hi-Speed (Type A), maximum current 500 mA per USB connection ■ 1 Ethernet 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	\leq 2000 m

General information

Directives	<ul style="list-style-type: none"> ■ EMC Directive 2014/30/EU ■ Low Voltage Directive 2014/35/EU ■ RoHS Directive 2011/65/EU
Pollution degree	2
Protection EN 60529	<ul style="list-style-type: none"> ■ Front panel and side panels: IP 65 ■ Rear panel: IP 40
Mass	<ul style="list-style-type: none"> ■ 3.5 kg ■ With Single-Pos stand: 3.6 kg ■ With Duo-Pos stand: 3.8 kg ■ With Multi-Pos stand: 4.5 kg ■ With Multi-Pos holder: 4.1 kg

19.3 Product dimensions and mating dimensions

All dimensions in the drawings are in millimeters.

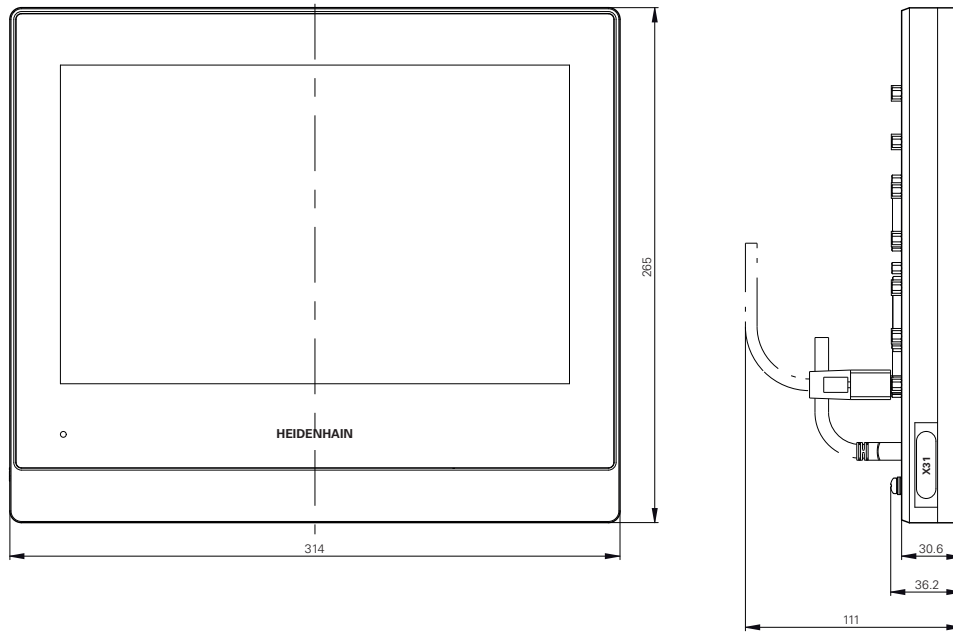


Figure 63: Dimensions of housing

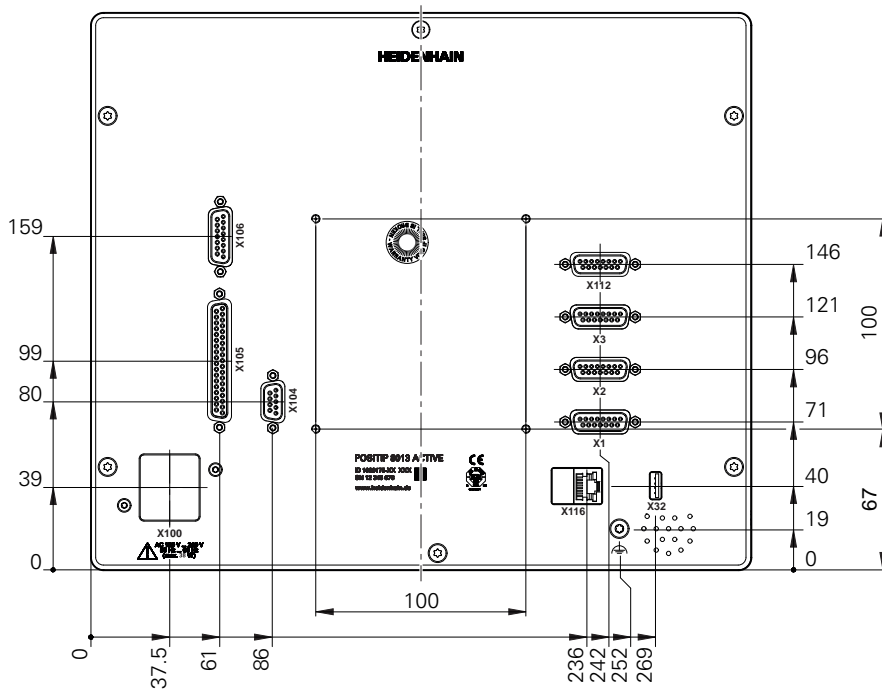


Figure 64: Dimensions of rear panel of the product

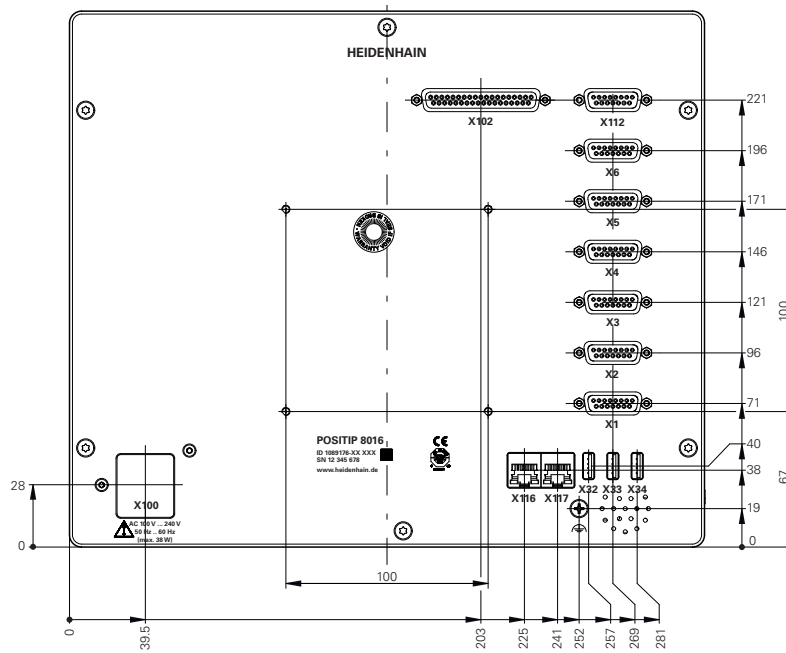


Figure 65: Dimensions of the rear panel for devices with ID 1089176-xx

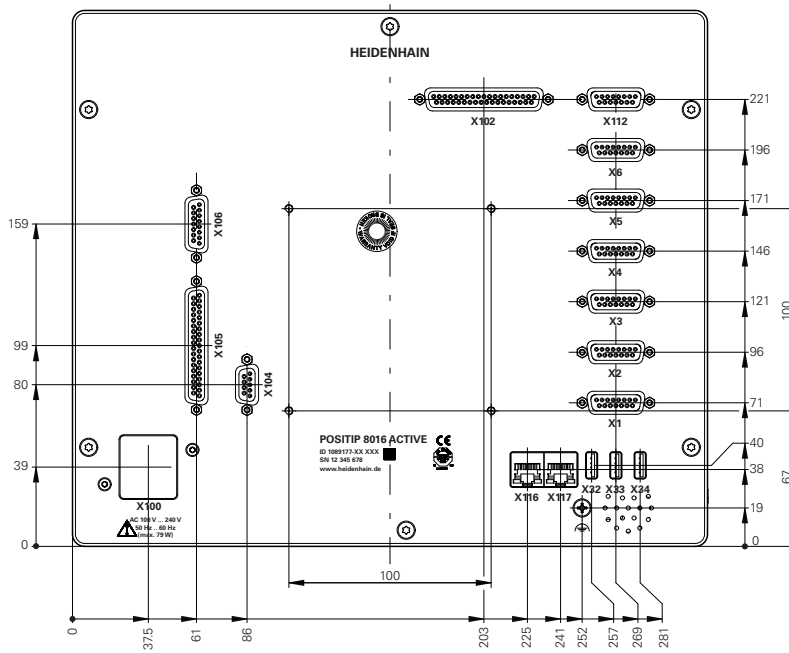


Figure 66: Dimensions of the rear panel for devices with ID 1089177-xx