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# Datasheet

## Distec

### POS-RP-121-01-PRO

#### 12.1" Monitor with Artista IoT

MO-06-006 (MO-06-056, MO-06-076)



**PRO**SERIES

Version 1.4

13.09.2023



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## 1 Revision History

Date	Rev.No.	Description	Page
10.12.2019	0.1	Preliminary Version	All
19.05.2021	0.2	MO-06-056, MO-06-076 added	2, 6
16.07.2021	1.0	<b>Release Version</b> (logos added), Software Flyer added	All
27.07.2021	1.1	New template	All
08.09.2021	1.2	Optional Accessories: Overview	8
21.03.2023	1.3	12-24V	5-6

## 2 Description

Distec's 12.1" POS-RP-121-01-PRO is a CE certified/IP65 proof front monitor solution, featuring the Raspberry Pi CM3+ based TFT platform Artista-IoT. Therefore, it is the perfect solution for Industry 4.0 and Internet of Things projects.

Its robust but slim cover offers all options for integration and various applications. The POS-RP-121-01-PRO is equipped with an industrial high-brightness display and is designed for long term availability.

### The POS-RP Series features:

- an integrated 10 finger PCAP touchscreen
- integrated passive cooling, which allows operating the system under full load even at high ambient temperatures
- VESA Mounting holes for using it as an HMI, mounted on a swivel arm or monitor stand
- As Option: in-wall mounting frame for a variety of integrations in concrete, wooden, or drywall constructions

### Artista-IoT offers all advantages of a modern ARM processor platform:

- driven by single 12/24V power supply
- in comparison to RaspberryPi standard industrial functions like Real-Time-Clock and others
- Basis configuration: CM3+/8GB (optional 16GB or 32GB)
  - Note: Due to the market situation, Distec reserves the right to install the respective CM3 + module available on the market in the series so that the delivery capability of the POS-XX-PRO series can be improved
- Standard configuration: Raspian
- LAN, HDMI-IN 1.4, 2xUSB as front interfaces, Micro-SD card reader
- An OSD keypad for full access to OSD menu board (→ [PrismaMedia-Eco Datasheet](#))
- *As Option*: Wireless - or Bluetooth adapters to be connected via LAN or USB

### Available Software:

The Monitors with VideoPoster or WebPoster as optional Application-Software can be ordered with the following part no MO-06-056 (VP) or MO-06-076 (WP).

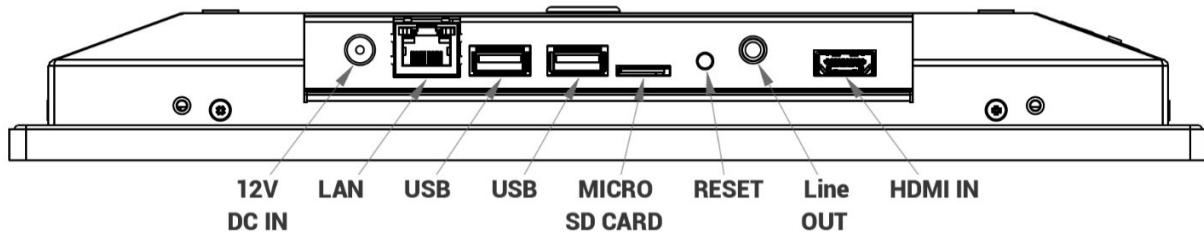
Users are able to program their own applications on a Raspberry Pi basis or using all operating systems and application programs, which are supplied and supported by the large community.

More details regarding available application software and operating systems can be found in the [flyer](#).

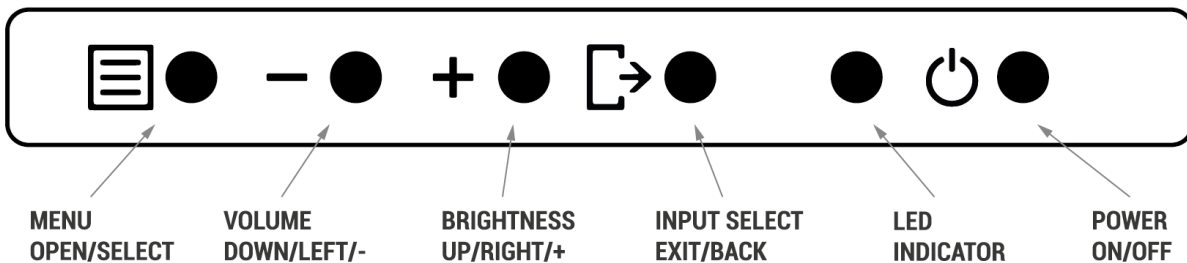
### 3 Characteristics

Items	Unit	Specification
Screen Diagonal	[inch]	12.1
Pixels H x V		1280 x 800
Supported Colors		262K(6bit color)/ 16.7M(8bit color)
Brightness	[cd/m <sup>2</sup> ]	1200
Viewing Angle	v/h	88/88/88/88
Nominal Input Voltage	[V]	12/24
Typical Power Consumption	[W]	15.1
Electrical Interface		USB, Audio, SD Card, Ethernet RJ45, HDMI
PCAP Touchscreen Touchpoints	Pcs.	10
Storage Temperature	[°C]	-40 to +80
Operating Temperature Range	[°C]	-25 to +70
IP rating		Front IP65
Physical Size H x V x D	[mm]	309 x 211.1 x 37.8
Active Area H x V	[mm]	261.12 x 163.2
Weight	[kg]	2.7

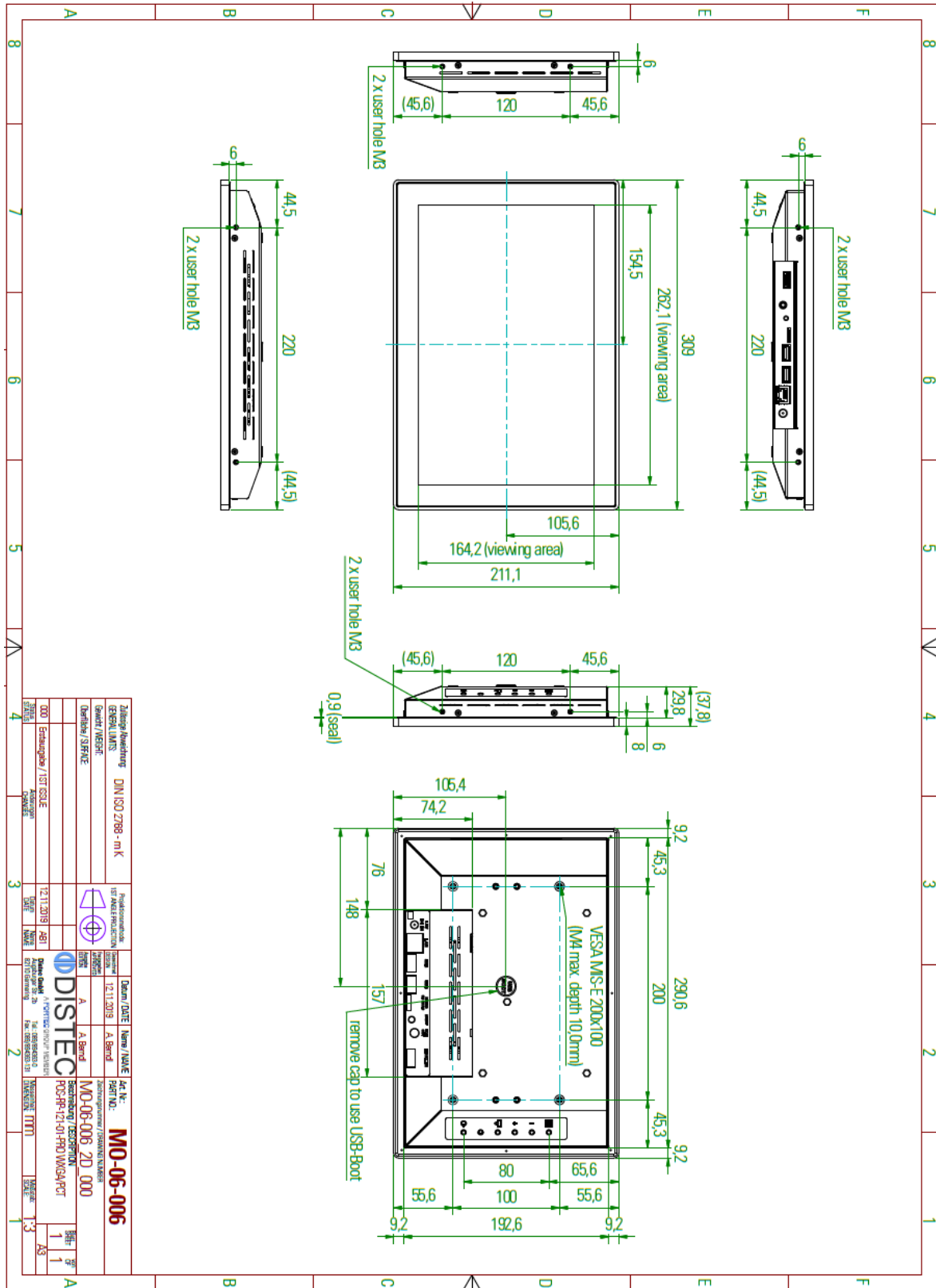
#### 3.1 Interfaces



#### 3.2 OSD Keypad



## 4 Mechanical Drawing



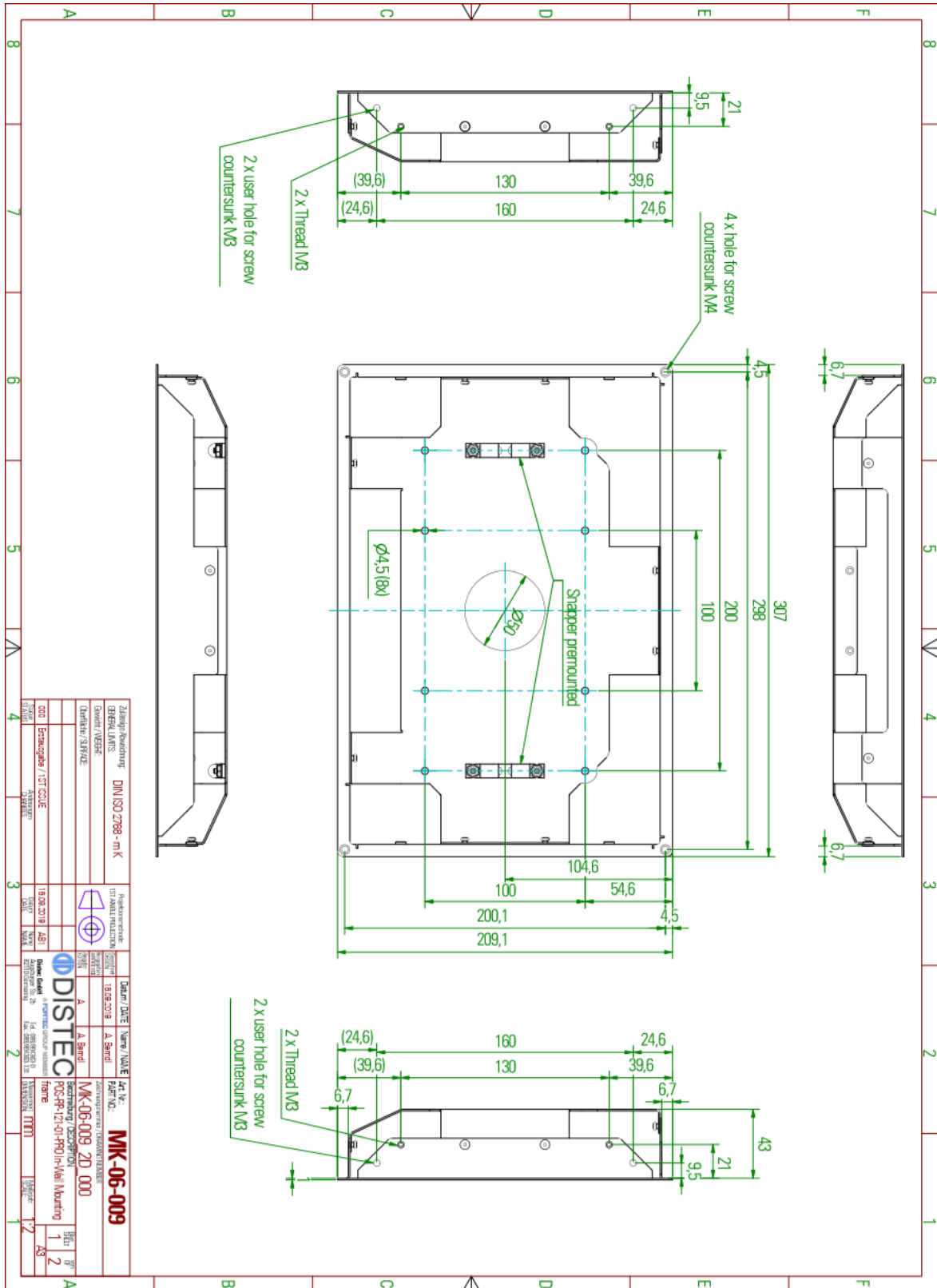
## 5 Optional Accessories

### 5.1 Overview

<b>Mounting</b>		
In-Wall Mounting Frame	n.a.	
<b>Power Supply Unit</b>		
PSU 12V/5A	NT-01-062	AC Adapter CWT KPL-060F-VI(C14/12V5A)2,1
Power Cord EU	DB-07-225	IEC PowerCord (EU-C13) 3x0,75 black 1,8m
Power Cord UK	DB-07-226	Power Cord (UK - C13) black 1,8m
Power Cord USA	DB-07-238	Power Cord (US-C13) black 1,8m/6 feet
<b>Other</b>		
WiFi	PC-05-071	DELOCK 12462 WLAN Stick/Antenna USB 2.0
Micro SD-Card	PC-04-030	microSDHC CARD 16GB SANDISK ULTRA 80MB/S



## 5.2 Mounting Frame



Zustieg/Bezeichnung		DIN/ISO 2788 - m-K		Hersteller/Marken		Bezeichnung		Part No.		Date	
GERBER/LAMPS				131		18.08.2019		A. Berndt		MK-06-009	
Lieferant/STRAZE				A. Berndt		MK-06-009		20.000		1	
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DATE		18.08.2019		A. Berndt		1		2		1	
DISTEC		14.08.2019		A. Berndt		1		2		1	
PCB-FP-121-01-PRO In-Viel Mounting		Frame		1		2		1		1	

## 5.2.1 Mounting instruction

**The enclosed snappers must be pre-assembled on the basic unit**

**Mounting dry wall/cement**

**Mounting on plate (frontmount)**

**rigid mounting option (no snap solution) use of distance holes M4x12 and screws M4 (Only accessible for installation of the device from behind)**

**Additional mounting options via side holes and threads**

**Additional mounting options via side holes and threads**

**mounting holes**

**mounting holes**

cutout depth 43,0mm

295,6

197,6

298

12

R8

295,6

197,6

200,1

11,2

Abgleich/Anpassung: DIN ISO 2798 - m.K. GENR/LINS: 137 GENR/STRIFE: 137		Hersteller: 137 137 137		Datum/DATE: Name/NAME: A. Bernd 18.08.2019 18.08.2019		Zertifikatnummer/Zertifikatsnummer: 14.08.2019 14.08.2019		Zertifikatnummer/Zertifikatsnummer: 14.08.2019 14.08.2019	
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Our company network supports you worldwide with offices in Germany, Austria, Switzerland, the UK and the USA. For more information please contact:

## Headquarters

### Germany



#### FORTEC Elektronik AG

Augsburger Str. 2b  
82110 Germering

Phone: +49 89 894450-0  
E-Mail: [info@fortecag.de](mailto:info@fortecag.de)  
Internet: [www.fortecag.de](http://www.fortecag.de)

## Fortec Group Members

### Austria



#### Distec GmbH Office Vienna

Nuschingasse 12  
1230 Wien

Phone: +43 1 8673492-0  
E-Mail: [info@distec.de](mailto:info@distec.de)  
Internet: [www.distec.de](http://www.distec.de)

### Germany



#### Distec GmbH

Augsburger Str. 2b  
82110 Germering

Phone: +49 89 894363-0  
E-Mail: [info@distec.de](mailto:info@distec.de)  
Internet: [www.distec.de](http://www.distec.de)

### Switzerland



#### ALTRAC AG

Bahnhofstraße 3  
5436 Würenlos

Phone: +41 44 7446111  
E-Mail: [info@altrac.ch](mailto:info@altrac.ch)  
Internet: [www.altrac.ch](http://www.altrac.ch)

### United Kingdom



#### Display Technology Ltd.

Osprey House, 1 Osprey Court  
Hinchingsbrooke Business Park  
Huntingdon, Cambridgeshire, PE29 6FN

Phone: +44 1480 411600  
E-Mail: [info@displaytechnology.co.uk](mailto:info@displaytechnology.co.uk)  
Internet: [www.displaytechnology.co.uk](http://www.displaytechnology.co.uk)

### USA



#### Apollo Display Technologies, Corp.

87 Raynor Avenue, Unit 1  
Ronkonkoma, NY 11779

Phone: +1 631 5804360  
E-Mail: [info@apolloDisplays.com](mailto:info@apolloDisplays.com)  
Internet: [www.apolloDisplays.com](http://www.apolloDisplays.com)