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Datasheet

Distec

POS-I-034-00-PRO

Round 3.4" Touch Monitor

MO-06-400 Series



Version 0.7

22.09.2021

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Table of Contents

1	Revision History	4
2	Description	5
3	Characteristics	6
4	Mechanical Drawing	7
4.1.1	MO-06-401 Base Module	7
4.1.2	MO-06-402 Base Module +Additional Cable Set.....	8
4.1.3	MO-06-403 Base Module +Raspberry Pi Module +Cable Set.....	9
4.1.4	MO-06-404 Pre-Assembled Monitor Module.....	10
5	Optional Accessories	11
5.1	Overview	11
5.1.1	Raspberry Pi Module	12
5.1.2	Mounting Frame	13
6	Application Software	14
6.1	Embedded Wizard.....	14

Preliminary

1 Revision History

Date	Rev.No.	Description	Page
14.07.2020	0.1	Preliminary Version	All
18.11.2020	0.2	Revised Preliminary Version; new description, image, added drawings	All
20.01.2021	0.3	Revised description, order of characteristics and new cover/last page	5, 6
29.04.2021	0.4	Weight in characteristics, application software	6,13
06.05.2021	0.5	Revised product names	5
27.07.2021	0.6	New Template	all
22.09.2021	0.7	Optional Accessories: Overview	11

2 Description

Distec's 3,4" POS-I-034-00-PRO is a round CE certified and optionally IP65 front proof monitor solution. Its modular design allows to use it as a standalone monitor, kit solution or fully integrated IPC based on the Raspberry Pi 4. 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-I-034-00-PRO is equipped with an industrial high-brightness display and is designed for long term availability.

The POS-I Series features:

- an integrated multi finger PCAP touchscreen
- an ambient light sensor for automatic brightness adjustment to ambient light conditions
- integrated passive cooling, which allows operating the system under full load even at high ambient temperatures
- *As Option:* in-wall mounting frame for a variety of integrations in concrete, wooden, or drywall constructions

The Raspberry Pi 4 offers all advantages of a modern ARM processor platform:

- driven by single 5V power supply
- Standard configuration: Raspian, 4 GB model, 16 GB SD card
- Interface: LAN, 2x HDMI-IN, 2x USB 3.0, 2x USB 2, Line-out, Micro-SD card reader
- 2.4 GHz and 5.0 GHz IEEE 802.11ac wireless, Bluetooth 5.0, BLE

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.

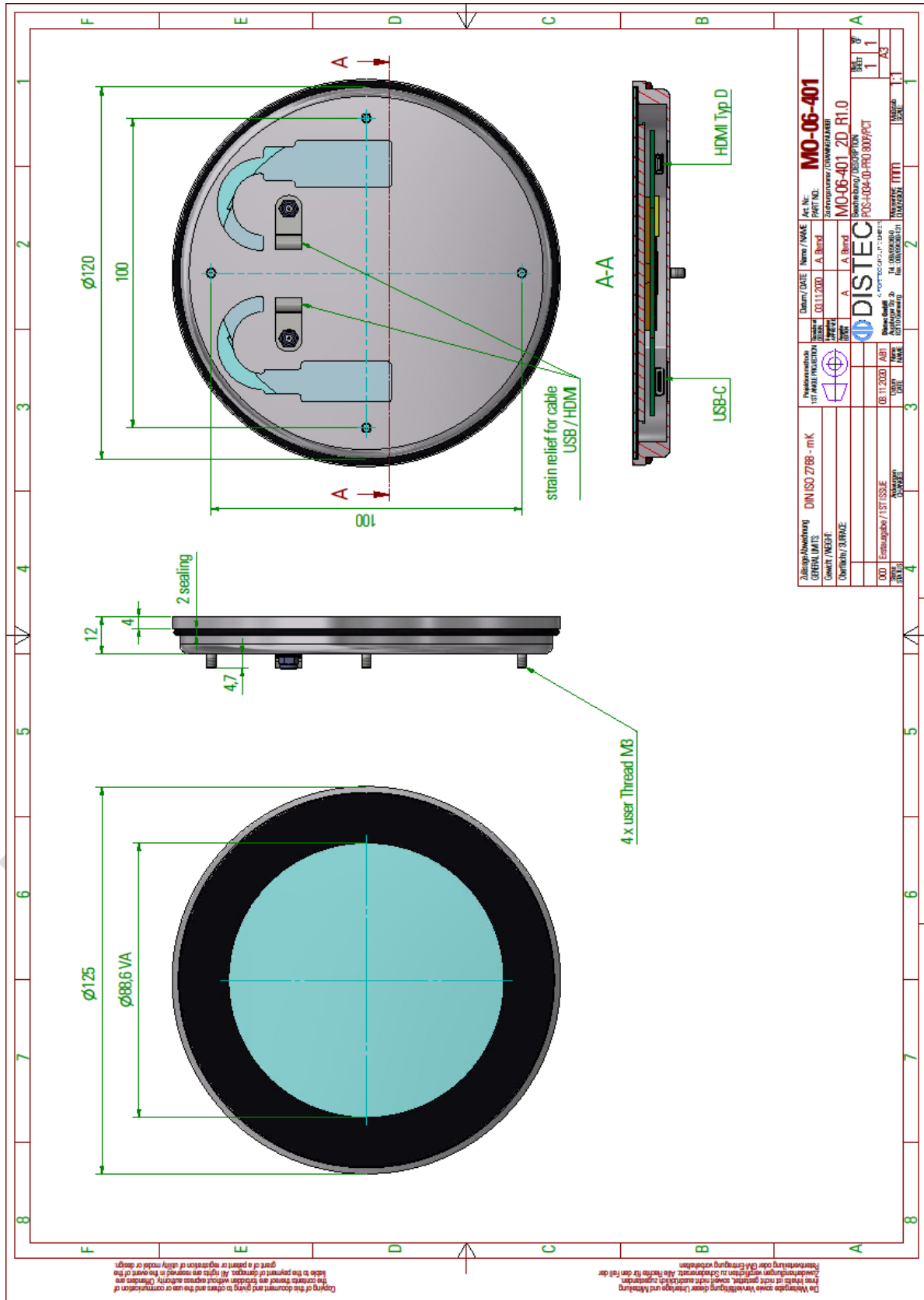
Product	Part No.	Model	Features
POS-I-034-00-PRO-V1 800x800/PCT	MO-06-401	Variant 1	Base Module
POS-I-034-00-PRO-V2 800x800/PCT/Cable	MO-06-402	Variant 2	Base Module +Additional Cable Set
POS-I-034-00-PRO-V3 800x800/PCT/RP4	MO-06-403	Variant 3	Base Module +Raspberry Pi Module +Cable Set
POS-I-034-00-PRO-V4 800x800/PCT/RP/Fram e	MO-06-404	Variant 4	Pre-Assembled Monitor Module

3 Characteristics

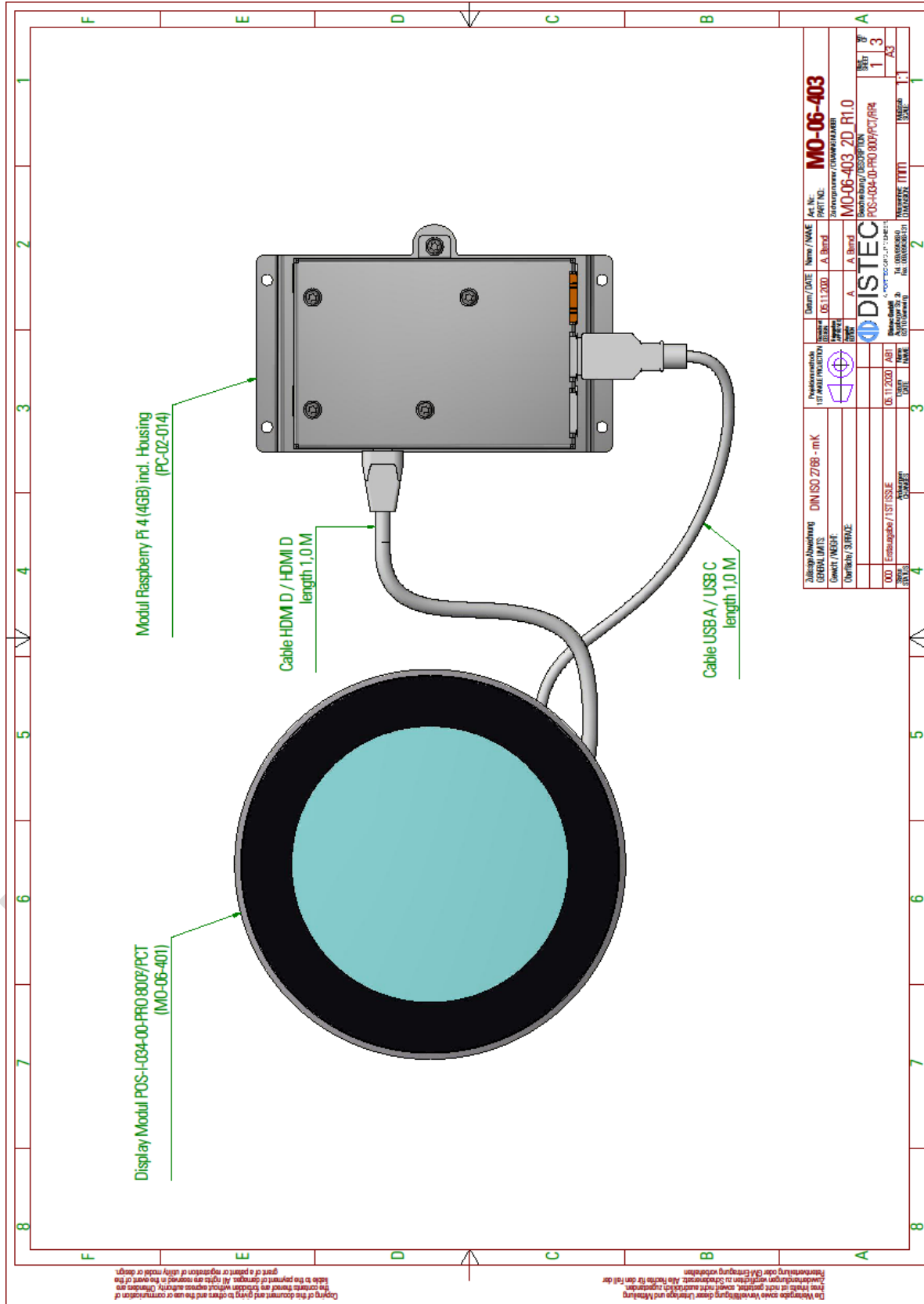
Items	Unit	Specification
Screen Diagonal	[inch]	3.4"
Pixels H x V		800 x 800
Supported Colors		16.7M (8bit color)
Brightness	[cd/m ²]	350
Viewing Angle	u/d/l/r	80/80/80/80
Nominal Input Voltage	[V]	5
Typical Power Consumption Monitor	[W]	t.b.a.
Typical Power Consumption Monitor + RP4	[W]	t.b.a.
Electrical Interface Monitor		5V, USB, HDMI-IN
Electrical Interface RP4 Module		5V, USB, Audio, SD Card, Ethernet RJ45, HDMI
Memory	GB	4
SD	GB	16
PCAP Touchscreen Touchpoints	finger	10
Storage Temperature Monitor V1-V2	[°C]	-30 to +80
Operating Temperature Range Monitor V1-V2	[°C]	-20 to +70
Storage Temperature Monitor V3	[°C]	-30 to +80 (RP4: 0 to +50)
Operating Temperature Range Monitor V3	[°C]	-20 to +70 (RP4: 0 to +50)
Storage Temperature Monitor + RP4	[°C]	0 to +50
Operating Temperature Range Monitor + RP4	[°C]	0 to +50
IP rating monitor		Front IP65
Physical Size H x V x D	[mm]	125 x 125 x 4,7
Active Area H x V	[mm]	87.6 x 87.6
Weight Variant 1	[kg]	0,175
Weight Variant 2	[kg]	0,250
Weight Variant 3	[kg]	0,400
Weight Variant 4	[kg]	0,580

4 Mechanical Drawing

4.1.1 MO-06-401 | Base Module



4.1.3 MO-06-403 | Base Module + Raspberry Pi Module + Cable Set



4.1.4 MO-06-404 | Pre-Assembled Monitor Module

The drawing illustrates the assembly of the MO-06-404 Pre-Assembled Monitor Module. It shows the following components and steps:

- Standard Ansicht von vorne (STANDARD FRONT VIEW):** Shows the final assembled unit with the display module (MO-06-001) and the in-wall mounting frame (MK-06-015).
- Display Modul POS-I-034-00-PRO 800P/PCT (MO-06-001):** The monitor module to be installed.
- POS-PP-034-00-PRO In-Wall Mounting frame (MK-06-015):** The frame that houses the module and provides wall-mounting points.
- incl. mounting accessories:** A list of hardware provided for installation:
 - 4 x Bolt M3x10
 - 4 x nut M3
 - 4 x sleeve 1mm
 - 4 x sleeve 2mm
 - 4 x sleeve 4mm
- preassembled Modul Raspberry Pi 4:** A Raspberry Pi 4 module is shown being inserted into the back of the display module.

Dimensions: The drawing is marked with a coordinate system (A-F, 1-8) for reference.

Zustand: 000		Datei: MO-06-404	
Beschreibung: POS-I-034-00-PRO 800P/PCT		Teil-Nr.: MO-06-404	
Hersteller: DISTEC		Produkt-Nr.: MO-06-404 2D R1.0	
Produkt-Nr.: MO-06-404		Rev.: 1	
Produkt-Nr.: MO-06-404		Rev.: 4	
Produkt-Nr.: MO-06-404		Rev.: 1	
Produkt-Nr.: MO-06-404		Rev.: 4	

5 Optional Accessories

5.1 Overview

PSU USB-C	NT-01-104	AC Adapter KSA-15E-051300HE black, EU
Raspberry Pi Module	PC-02-022	Raspberry Pi 4 B 4GB
Micro SD-Card	PC-04-030	microSDHC CARD 16GB SANDISK ULTRA 80MB/S
WiFi	PC-04-035	EDIMAX EW-7811UN V2 Wireless USB Adapter

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6 Application Software

6.1 Embedded Wizard



Embedded Wizard is TARA Systems' embedded GUI technology that enables you to create platform-independent and high-performance graphical user interfaces (GUI), even on resource constrained microcontrollers.

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