EXPERT SE

FORSIS®
Die Marke für Industrie PCs

The EXPERT SE series is another important component in the EXPERT family of FORSIS GmbH.
With this series of devices, special emphasis was placed on the high protection class of IP69 for the entire device.

Due to the modular design, this device offers many degrees of freedom, which makes it possible to cover a large number of construction variants, e.g.

- protection class IP69
- Freezer variant down to minus 30 degrees with heating elements
- Assembly preparation for a stainless steel support system

Touch screen technology

Analog resistive or PCAP multitouch?
First of all - both touch technologies are justified and have become the standard medium for data entry in production. Depending on the application environment and industry, we at FORSIS make a distinction in order to provide the customer with the best possible advantage.
In the food processing industry and the food trade, we therefore prefer to work with analog resistive technology for our stainless steel PCs. The reason:
If the multi-touch glass surface is damaged, glass splinters can occur; this is not possible with analog resistive touch panels.

Cable feed and connection

Another important decision criterion for a recording device in the food sector is where and how the cables are installed on the device. With the EXPERT SE series, this is done on the underside of the device. The other device series can also be connected from the rear. See EXPERT SBC.

- Cable feed from below into the cassette
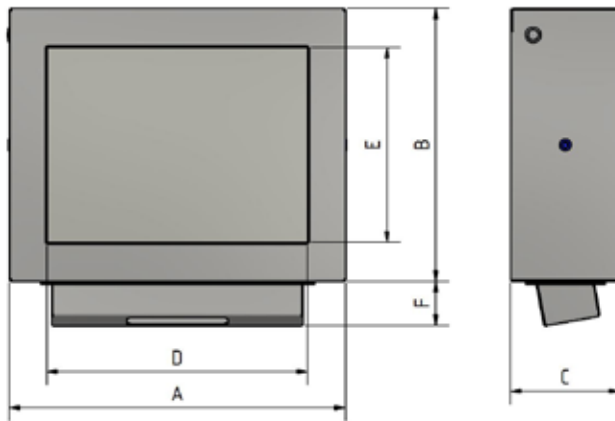- Cable feed protected by various covers such as ICOTEK, RITTAL, PG

Other important key points:

- Degree of protection [EN60529] IP69 on the front and with PG screw connection also on the connection side
- Low housing depth of only 100 mm
- Particularly suitable for hygiene-sensitive areas such as food and pharmaceuticals
- Housing material V2A, 1.4305 or optionally V4A brushed stainless steel
- No holes or edges at the front or all around
- Extremely compact and vibration-proof design
- Approvals according to CE, FCC and a hygiene certificate
- Temperature range from -10 ° C to 50 ° C
- Mounting options on the side of the housing for table mounting or wall mounting
- Likewise, direct mounting on stainless steel support tube systems, with internal cable routing
- Integrated power supply 230V AC / power: 65W / approvals: CE, CSA, UL

LEBENSMITTEL

Product information

EXPERT SE Series

Technical features

Measures and weight

Information on the dimensions in mm
to the weight in kg

EXPERT SE	Overall dimensions			Active touch field		F - cable protection	Weight
	A - Width	B - Height	C- Depth	D - Width	E - Height		
1500	400	325	130	312	234	30	12
1700	450	385	130	342	275	30	13
1900	480	415	130	383	308	30	14
2150	585	383	130	480	480	30	15

Mainboard and CPU variants

Type EXPERT SE		1500	1700	1900	2150
LCD diagonal / Format		15" / 4:3	17" / 4:3	19" / 4:3	21,5" / 16:9
Resolution					
Touchscreen Technic / interfaces / IP protection class		Analog resistive Touch Screen/ USB / IP67			

CPU INTEL® Celeron© 6305E TGL				■	
CPU INTEL® I3© 1115G4E TGL	**TIGER LAKE**			■	
CPU INTEL® I5© 1145G7E TGL				■	
UEFI BIOS Support / TPM2.0				■ / ■	
RAM / max. RAM / SSD MSATA M.2		8 GB / 32 GB / 128 GB			
USB 3.1 Gen.2 / LAN		4x / 1x 1Gbit und 1x2,5 Gbit			
optional interface: serial RS232 / WLAN-BT		2x / 1x			

Product information

Technical features

Touch screen technology and front area

Analog resistive touch screen with protective glass effect
Please note: The distance between the active touch screen surface and the outer edge of the device is extremely small. Thus, the overall dimensions of the housing have been reduced to the essentials and you get an optimal ratio between space requirements and usage.

Features of the stainless steel PCs with resistive touch technology
- Single Touch
- Can be operated with gloves, pens, pens, etc.
- Calibration-proof and insensitive to surface moisture
- The front window is covered with plastic film, which is an integral part the touchscreen creates a laminated glass effect, i.e. no glass splinters if broken

Contactless readers and function buttons
A RFID reader can be integrated directly in the device.
The contactless reading processes
- LEGIC © (advant),
- hitag © and mifare © and
- (DESFire) are offered.

The position of the RFID reader can be coordinated with the customer based on the location or ergonomics. It is common on the underside of the device, but it is also possible to the side.

Connection and cable deployment

All connection cables of the device are led out on the underside of the device. The plugs are protected by the internal cassette.
The connectors are protected by the following cover plates.

Cable execution with IP65 protection class without cable work
You determine the type of cable entry. Products from the companies RITTAL, ICOTEC, Pflitsch and of course the classic PG screw connection are offered.

Cable execution with IP69
When commissioning the devices, the situation very often arises with the cabling that pre-assembled cables, such as those from keyboards and scanners, have to be led through PG screw connections in order to achieve a degree of protection according to IP69. This means cutting off, driving through and soldering.

EXPERT SE

Technical features - more options

When using the FORSIS EXPERT series, our MIMO standard antenna with IP65 protection class or commercially available rod antennas are sometimes not sufficient.
The flat roof mounting antenna has decisive advantages:

- It is inconspicuous and therefore not a target of damage
- The planar antenna is absolutely waterproof when installed - IP69
- Its diameter is 80 mm and a bore of 16.2 mm is sufficient
- It is always possible to retrofit existing devices
- The antenna is flame retardant according to ECE-R 118

Consistency in all areas

This means that the accessory components must also be adapted to the environmental conditions of the respective place of use. The brackets for the devices in their different lengths (stand or wall bracket) are also made entirely of stainless steel. The same goes for the handles.

Function button

Freely assignable function buttons can also be built into the EXPERT SBC.
Of course, always everything with protection class IP65.
Up to eight buttons are possible. These can be assigned completely freely.

Integrated barcode reader - free-hand reading even in the food sector

The accessory components must also be adapted to the environmental conditions of the respective place of use. It is therefore possible to install additional barcode readers in almost all FORSIS devices.
This is where normal barcode readers often reach their limits due to their protection class. The exception is certainly the PM9501 from DATALOGIC or similar products. However, the problem with the charging and transfer station arises here again. The direct integration of a 2D barcode reading head into the EXPERT SBC series solves these problems. No additional protective measures are required for the barcode reader. The voltage connection is solved via USB, as is the direct data transfer. But the big advantage is that you have both hands free for your work. The best thing to do is to try it out for yourself.