

FTC ST-8K

Operator console with monitor



Description of Functions

The console is a "Kaedra 13195" box by Schneider Electric. DC power supplies are installed inside the console to provide power to the level transmitter components. Thanks to the installed blocks of intrinsic safety (IS) power supply circuits, the console is provided with explosion protection of type "i". These blocks also ensure the transmission of signals to/from the hazardous area through digital interfaces. The console is also equipped with a remote sensing unit that receives and processes information from probes, as well as outputs and forms the results of measurements and calculations for display on the operator's monitor and in the ACS object, whose

various interfaces provide constant access to the latest data. An operator monitor with a 7-inch color touch screen is mounted on the front panel of the console. This screen has a clearly structured and user-friendly interface, displaying current measurements and reports (log files) in a convenient format for the user. The most important information, such as the fuel level in the tank and messages, is instantly displayed on the screen, providing operators with up-to-date data. By using the touch screen, operators can obtain additional information simply by touching the tank filling graphs or functional buttons.

Technological Advantages of Freiberg Technologie

- Consoles can be connected up to 8 probes.
- Tank contents information is continuously updated and displayed on the operator's monitor.
- Useful additional information accompanies clear visualization of tank contents.
- Tank contents information is available in liters and kilograms.
- The screen displays fuel temperature and water level.
- Thanks to its modular architecture, operation becomes extremely flexible.
- Updates and upgrades are easily achievable.
- Easy setup and deployment.
- Ethernet connectivity is possible.
- Software availability for updating the embedded level meter components.



Functions

The monitor displays All results are additionally measurement and calculation archived in the database. The results obtained from the probes. controlling of the operator monitor All significant data related to the readings is operated via tank (tank number and petroleum touchscreen. Special attention product name), petroleum was paid to ergonomics when product status (level, sub-grade determining the size of the water level, mass, and functional keys. Additionally, temperature of the petroleum information about emergency product), and various additional situations is displayed on the data are displayed. The displayed operator monitor. tank information is continuously updated and available for viewing at any time.

Data management

- Display of tank number and product name
- Display of product and mass volume
- Indication of product temperature
- Display of sub-grade water level
- Display of the number of tanks (depends on configuration)
- Display of alarm messages
- Maintenance and archiving of the log

Design

Overall dimensions, not exceeding	484 × 340 × 160 mm
Mass, kg	determined by the number of BIS blocks
Ambient air temperature range	from +10 to +35 °C
Placement	only indoors OUTSIDE EXPLOSIVE ZONES
Degree of protection against water, dust, and foreign solid particles: console probe dispatcher Intrinsic protection unit	IP54 IP20 IP20
Power supply	connection to AC mains with a nominal voltage of 220 V 50 Hz
Current consumption by component parts of level sensors, not more than: probe dispatcher probe (P25 transducer)	0,3 A 0,07 A
Exchange channels with external systems	RS 232 interface RS 485 interface Available on request: - standardized informative direct current signals 4 - 20 mA; - relay outputs allowing switching alternating current circuits up to 250 V 5 A (power not exceeding 100 VA); - linear inputs; - linear outputs
Display of measurement and calculation results	7" operator monitor based on Raspberry Pi 3 Model B, 1GB RAM
Remote access provision	TP-LINK TL-SF1005D switch

