

## **Product Data Sheet**

### **Self-service retail filling station AVK – NES**

#### **AVK 20-2S**

The filling station is designed for the retail dispensing and sale of automotive fuel in a self-service mode, with a detailed record of individual dispensing's, where the customer / employee serves self-help. Authorization of dispensing is performed through a self-service terminal using local cards. All technological equipment is located above the ground and integrated into a special container that contains an operational tank for one or two types of the fuel (typically diesel and petrol). Fuel dispensing is performed from 2 dispensing points (certified dispensers). Each point (dispenser) is equipped with 2 nozzles. The station and the dispensing point are roofed, the clearance height can be up to 4.2 m. The AVK area is observed with the camera surveillance system with record and on-line access to the cameras.

The attic can be in various graphic and colour versions, as well as the surface of AVK body.

Dispensing points are illuminated with LED strips.

**Original Czech product protected by European patent**

## Main advantages

- The product certified as a whole meets the most demanding requirements of current EU standards
- The above-ground container solution provide these benefits in particular
- easy transportation and installation
- easier preparation for construction
- adaptation to specific customer requirements
- simplified approval procedures
- compactness
- Self-service sale / dispensing
- Both, automotive fuels and operational liquids (AdBlue) can be dispensed
- Simple control
- Evidence of dispensing by person, by vehicle
- Management of the station from your local PC and even remotely
- Two levels of access permissions (admin and browser)
- Diagnostics of basic faults on the station display
- Operating temperature range from -
- 30°C
- to +60°C

### Realization (Kopřivnice, 2016)



Visualization of version AVK 20-2S.2F



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## Certification and safety

The product is designed as a unit in accordance with the Law No.22/1997 Sb. as amended and is certificated in accordance with EU Regulation No.94/9/EC (currently 2014/34/EC) as an equipment intended for use in potentially explosive atmospheres. EC-type Examination Certificate FTZÚ 15 ATEX 0228X was issued on December 23,2015.

## Basic technical specification of AVK 20-2S

|                                       |   |
|---------------------------------------|---|
| Dimensions an weight of the container | l:6058, h:2591, w:2438 mm and 10.500 Kg (empty container)     |
| Nominal (operational) volume          | 22 900 l (20 000) l   |
| Fuel dispensed                        | Petrol (BA), Diesel (NM)                                      |
| Dividing ratio of operational tank    | On customer´s demand  |
| Left dispensing                       | 1x40 l/min (petrol) and 1x40 l/min (diesel) including ATC     |
| Right dispensing                      | 1x40 l/min (petrol) and 1x40 l/min (diesel) including ATC     |
| Hose                                  | Winding, up to 4,9 m in length including a blasting clutch    |
| Measuring in the tank                 | Magnetostrictive probe (fuel + water)                         |
| Filling pump                          | 2x 600 l/min (independent pump for each type of the fuel)     |
| Auxiliary battery                     | 12 VDC (20 Ah) back-up of low voltage part                    |
| Charging voltage                      | 230 VAC, 50 Hz, nominal output 3 kW                           |
| Bank terminal                         | On port and starboard, Ingenico, including contactless module |
| Local card reader                     | RFID card reader 125 kHz, on port and starboard               |
| Dispensing control                    | Touch-screen 10,4"  |
| Document printer                      | Thermal printer, 60 mm  |
| Surveillance cameras                  | 2x outside a 2x hidden (full HD), capacity 1TB, online access |

*\*detailed data you can find in the document „Description of the product line“.*

## Optional equipment and accessories

- Higher container (height 2896 mm) for increase of operational capacity
- High rate dispensing (1x80 l/min) for diesel, satellite dispenser and various non-standard solutions
- Dispensing of WSE (mixture of water, soap and ethanol) with tank placed in the container
- Dispensing of AdBlue (tank inside or outside the container)
- Simultaneous dispensing (from one dispensing point, two nozzles)
- Back-up generator or autonomous operation (by use of auxiliary power unit)
- Graphical design tailored on customer´s wish
- Price pylon – “T-shape”, mounted on the container or on customer´s demand

