

# Gas Filling Unit With on-cart weighing Model GFU08-W

WIKA data sheet SP 63.08

## Applications

- Emission-free topping-up of SF<sub>6</sub> compartments
- Weighing of SF<sub>6</sub> for precise reporting

## Special features

- SF<sub>6</sub>-refilling simplified by on-cart cylinder weighing
- High accuracy scale with large display
- Error-free handling design to avoid emissions
- Cylinder secured for maximum safety
- Dust and water tight IP 65 rating

## Description

The model series GFU08 consists of rugged and versatile transport carts for SF<sub>6</sub> cylinders to top-up SF<sub>6</sub> filled compartments. The concept was done to be used world-wide in terms of connections and power plugs.

The GFU08-W has a built-in cylinder scale and allows precise weighing of the SF<sub>6</sub> amount filled into compartments. This is ideal for using the mass-balance method to report SF<sub>6</sub> gas filling amounts. The special low-profile load cell arrangement below the gas cylinder allows easy loading/unloading of the heavy cylinders by one individual.

## Functionality

For the SF<sub>6</sub>-gas filling, the operator sets the desired pressure on the regulator and reads the pressure gauge. The filling hose is then connected with self sealing valves to the equipment. Before the filling-valve is opened, the weighing display is set to zero allowing the user to report the filled-up SF<sub>6</sub>-gas amount easily.

The weigh scale of the GFU08-W is designed to measure better than 0.1 % accuracy while having the gross-weight of a



Gas Filling Unit, model GFU08-W <sup>1)</sup>

<sup>1)</sup> The gas cylinder is not in the scope of supply

filled cylinder. With a special assigned button on the display, the user can switch between net and gross weight. The battery powered 6-digit LCD display with backlight is ideal for the use in this mobile application. It is rated IP 65 with a rechargeable battery allowing a maximum of 75 hours continuous operation between charges. The power save auto-off feature is programmable and the display also features battery charging indication, low battery warning and backlight switch-off option.

To reach maximum security and ergonomic handling, the gas-cylinder is strapped tightly to the cart. The easy to use quick ratchet straps are acc. to EN 12195-2 and can handle up to 250 daN each.

The weight balanced design of the cart and the excellent running characteristics of the large-diameter rubber wheels allow easy operation in indoor substations (for outside-use, pneumatic wheels are optional).

## Specifications

### Cylinder connection

W 21.8 x 1/14" DIN 477 connection (other optional)  
Inlet hose with no-return valve; length 0.8 m (31.5"), kink-resistant

### Max. inlet pressure

200 bar (2900 psi)

### Max. outlet pressure

10 bar (145 psi)

### Gas cylinder tie-down

- 2 x ratchet straps 25 mm x 1.8 m (1" x 70"); labeled acc. to EN 12195-2 for holding 250 daN each
- Chain optional

### Filling hose

6 m (235") wire braided stainless steel hose with self sealing valves DN 8; other lengths optional

### Adapters

DN 8 and DN 20

### Rubber wheels

250 x 40 mm (9.8" x 1.6");  
option air tires 260 x 60 mm (10.2" x 2.4")

### Size

H x W x L: 1520 x 540 x 634 mm (60" x 21" x 25")

### Weight

37 kg (82 lbs)

## Integrated scale

### Rated capacity

125 kg (275 lbs)

### Max. allowed load

200 kg (440 lbs)

### Display

6 digit - 20 mm (0.8") LCD display with LED backlight

### Power supply

AC 110 ... 240 V, 50/60 Hz

### Battery

12 V battery pack (rechargeable NiMH)

### Operating environment

Temperature: -10 ... +50 °C ambient (14 ... 122 °F)

Humidity: <90 % non-condensing, IP 65

## Dimensions in mm (inch)

### Standard version

