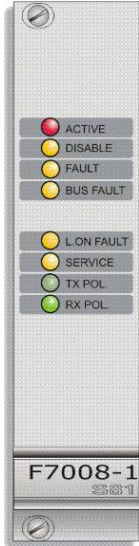


## CARD S81-F7008

### ADDRESSABLE SYSTEM OF CYLINDER WEIGHING

The card S81-F7008-1 used with weighting scales (S81-MOD-BIL), allows to monitor (even in remote position) the cylinder status and to inform promptly about losses (even if small) of the content.

#### MAIN CHARACTERISTICS

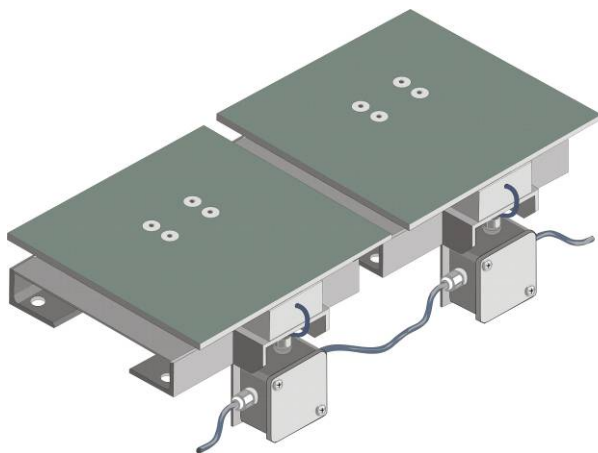


- In diagnostic mode, subtracting the tare weight of the cylinder and the base plate, it can be read the net weight of the contents of each cylinder on the display of S81-HS
- During the start-up of the system, the weight of each cylinder is automatically detected and used to perform the zeroing of reading
- Deviations of 2.5% and 5% of weight compared with the initial value of each cylinder (note 1), will be used to produce reports of pre-alarm and alarm
- If the program IRIDE is supplied, it will be possible to display on the graphic pages the offset value of each cylinder compared with the initial value.
- The card F7008-1 controls the balance modules through a serial bus (RS485 half duplex) on which up to 32 MOD-BIL can be connected.
- Multiple cards S81-F7008 can be used for each panel S81-HS
- Each module is connected in series with a wire to 4-wire (signal + power) to a maximum distance of 1000 meters by the panel
- The card F7008-1 is inserted in a 19 "rack, with locking screws and can be hot swapped (note 2)

#### LED INDICATION

LED	Status	Indication
ACTIVE	⊗	Signaling of prealarm or alarm on one of the scales connected
DISABLED	⊗	At least one scale is disabled
FAULT	∅	There is a fault in communication
MASTER	∅	Master mode functionality
TX RS232	∅	It turns on to every transmission on the RS232
RX RS232	∅	It turns on to every reception on the RS232
TX RS485	∅	It turns on to every transmission on the RS485
RX RS485	∅	It turns on to every reception on the RS485

LED status legend      ⊗ = on      ∅ = blinking



Couple of weighting scale S81-MOD-BIL alongside

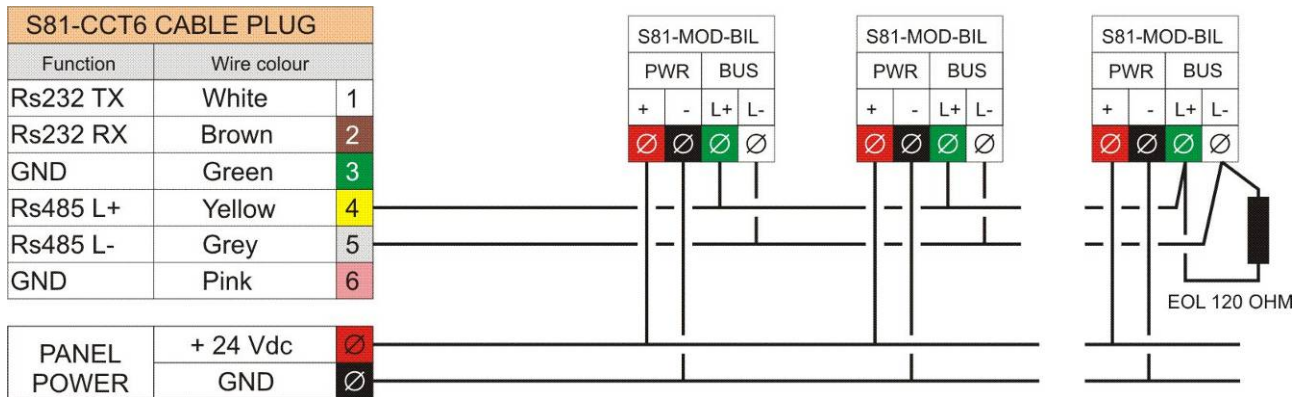
#### MAIN CHARACTERISTICS OF THE WEIGHTING SCALE

- Dimensions of the weighting scale 260x260 mm or 300x 300 mm (according to customer needs)
- During the configuration of each S81-MOD-BIL, two thresholds can be set (alarm and pre-alarm)
- Protection level IP30 (load cell IP65)
- Construction in carbon steel or stainless steel (optional)
- Rated Load Balance 300 Kg
- Individual addressing from 1 to 32
- Cell linearity 0,03 of full scale
- Cell hysteresis 0,03 of full scale
- Reading temperature range -10°C +40°C

## Connection terminal block S81-T8003-1 ↔ Weighting scale S81-MOD-BIL

The connection between the card and cylinders is carried out through a cable with a connector at its end, which will be inserted in the backside of the rack. The other side of the cable can be connected to a terminal block to be placed on the backside of the panel.

The load cells of the scale modules will be connected in series to each other as in the diagram below. It should be noted the need to feed the cells with a voltage of 24 Vdc.



TECHNICAL SPECIFICATIONS OF THE WEIGHTING SCALE S81-MOD-BIL		
Model	S81-MOD-BIL	
Product code	S81-MOD-BIL 260 (or 300)	
Power supply	24 Vdc +/- 10%	
Power absorption for each scale	36 mA (typical)	
Operating temperature	-5 + 40 °C	
Load cell	Temperature allowed by the cell	-20 + 70 °C
	Temperature of value compensation	-10°C +40°C
	Linearity	0,03% of full scale
	Hysteresis	0,03% of full scale
	Repeatability	0,03% of full scale
Approx. weight of the carbon steel 260x260 version	8 kg	
Dimensions of the base	260x260 mm or 300x300 mm (according to customer needs)	

## NOTES

### Automation controls in accordance with the regulations (note 1)

This weighing system drastically reduces maintenance on all activities required by the EC Directive 842/2006 (F-gas Regulation) and EN 15005-1: 2008 (Section 9.2.1.3), which require that the content of the cylinders with liquefied gases is checked to verify that there has been a loss of extinguishing agent above 5% or 10% of the volume of the pressure at least every 6 months.

Thanks to its functional characteristics of electronic type and level of achievable performance, this product is not subject to certification CPD required by the standard: EN 12094-11:2003 - Fixed firefighting systems - Components for gas extinguishing systems - Part 11: Requirements and test methods for mechanical weighing devices, which is instead applicable to all weighing systems of the mechanical type.

### Hot swap (Note 2)

The card can be removed for replacement under tension, so that it can be done without shutting down the plant and without disconnecting the system.