

## Contact Pressure Gauge UL

### SFFECO Prime 227



#### Approvals



1) Listed system covered by UL-file EX15997 (SFFECO Prime 227)

2) Part of the system approval

#### SAP designation

e.g. part no. 889306: Contact pressure gauge UL 725 (50) psi (bar) / 324 (22.5) NO HFC-227ea

#### Maintenance

functional check within the framework of system-specific functional test

#### Spare parts

- O-ring part no. 888023
- Supporting ring O-ring part no. 888024

Nominal pressure at 70 °F (21 °C) psi (bar)	Switching mode <sup>3)</sup>	Part no.	Pressure range / switching point psi (bar)	max. Pressure psi (bar)	Tolerance acc. to UL / ULC psi (bar)	Weight kg (lbs)
360 (25)	break contact (NC)	889311	870 / 324 (60 / 22.5)	725 (50)	± 19 (± 1.3)	0.17 (0.37)
610 (42)		889312	1160 / 549 (80 / 37.8)	1015 (70)	± 21 (± 1.4)	
725 (50)		889313	1450 / 653 (100 / 45)	1160 (80)	± 23 (± 1.5)	
360 (25)	make contact (NO)	889306	870 / 324 (60 / 22.5)	725 (50)	± 19 (± 1.3)	
610 (42)		889307	1160 / 549 (80 / 37.8)	1015 (70)	± 21 (± 1.4)	
725 (50)		889309	1450 / 653 (100 / 45)	1160 (80)	± 23 (± 1.5)	

#### <sup>3)</sup> Note switching mode

Break contact (NC) - pressureless closed:  
At nominal pressure the contact is opened. Contact makes with falling pressure or anticlockwise pointer motion.

Make contact (NO) - pressureless opened:  
At nominal pressure the contact is closed. Contact breaks with falling pressure or anticlockwise pointer motion.

#### <sup>4)</sup> Note for temperature range

The switching point of the integrated electric pressure switch is designed for the nominal system pressure minus 10% at 20 °C.

Due to the temperature related pressure drop, this switching value is also achieved for systems without pressure loss if the ambient temperature falls below 5 °C.

We therefore recommend using the integrated electric pressure switch to monitor the system pressure only at temperatures > 5 °C.

#### Technical data

Pressure medium .....HFC-227ea, N<sub>2</sub>  
Nominal size .....50  
Accuracy class .....1.6  
Working temperature electrical switching function ....see note <sup>4)</sup>  
Temperature range: <sup>4)</sup>  
Product temperature, storage temperature:  
.....-40 °C to +60 °C (-40 °F to +140 °F)  
.....measuring medium max. +60 °C (+140 °F)  
IP code .....IP65 with mounted cable  
Measuring network, motion work .....copper alloy

#### Electrical data

Switching voltage .....4.5 – 24 V DC / VAC  
Switching current .....5 – 100 mA  
Contact load .....max. 3 W, dry contact  
Conducting wire .....two-core, 100 cm (39.37")  
Cross-section of conducting wire ...0.14 mm<sup>2</sup> (0.000217 square inch),  
.....AWG 26

## Contact Pressure Gauge UL

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#### Design of instrument dial

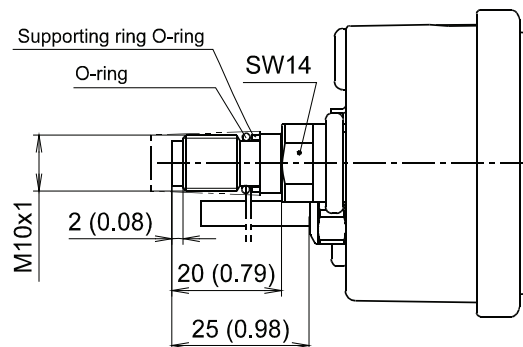
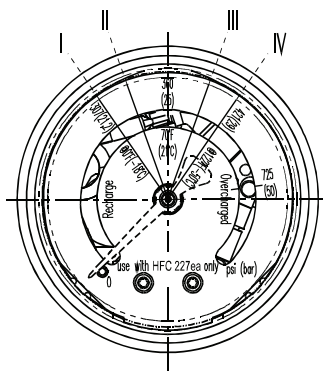
Design of instrument dial .....according to UL 2166  
Material .....aluminium, white  
Scale .....dual scale (bar / psi)  
Indicating range .....0 to pressure range

Indicating range marked:

- 0 to I .....Recharge  
- I to II .....red  
- II to III .....green  
- III to IV .....red  
- IV to max. ....Overcharged

#### Dimension drawing

Dimensions in mm (inch)



#### Indicating range marked

Nominal pressure at 70 °F (21 °C) psi (bar)	Red area I to II	Green area II to III	Red area III to IV	Marking at nominal pressure	Marking at I	Marking at IV
360 (25)	290-324	324-396	396-493	360 I (25)   70°F I (21°C)	290 (20) @0°F (-18°C)	493 (34) @122°F (50°C)
610 (42)	480-549	549-671	671-767	610 I (42)   70°F I (21°C)	480 (33) @0°F (-18°C)	767 (53) @122°F (50°C)
725 (50)	587-653	653-798	798-864	725 I (50)   70°F I (21°C)	587 (40) @0°F (-18°C)	864 (60) @122°F (50°C)

## Pressure Gauge UL, SFFECO Prime 227 (Optional)

### Approvals



1) Listed system covered by UL-file EX15997 (SFFECO Prime 227)

2) Part of the system approval

### SAP designation

e.g. part no. 912100: Pressure gauge UL 725 (50) psi (bar)  
HFC-227ea

### Maintenance

functional check within the framework of system-specific  
functional test

### Spare parts

- O-ring part no. 888023
- Supporting ring O-ring part no. 888024



Nominal pressure at 70 °F (21 °C)	Part no.	Pressure range	max. Pressure	Weight
psi (bar)		psi (bar)	psi (bar)	kg (lbs)
360 (25)	912100	870 (60)	725 (50)	0.15 (0.33)
610 (42)	912101	1160 (80)	1015 (70)	
725 (50)	912102	1450 (100)	1160 (80)	

### Technical data

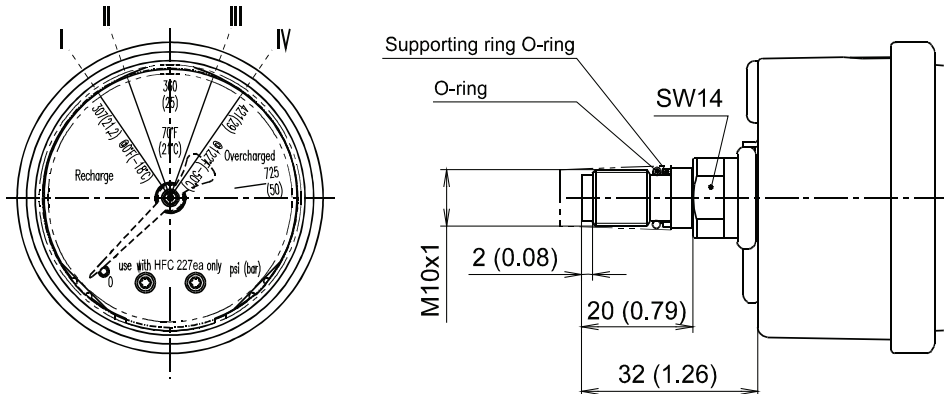
Pressure medium .....HFC-227ea  
Nominal size .....50  
Accuracy class .....1.6  
Temperature ranges .....-40 °C to +60 °C (-40 °F to 140 °F)  
.....measuring medium max. +60 °C (140 °F)  
Measuring network, motion work .....copper alloy

### Design of instrument dial

Design of instrument dial .....according to UL 2166  
Material .....aluminium, white  
Scale .....dual scale (bar / psi)  
Indicating range marked:  
- 0 to I .....Recharge  
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## Pressure Gauge UL, SFFECO Prime 227 (Optional)

### Dimension drawing Dimensions in mm (inch)



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725 (50)	587-653	653-798	798-864	725 I (50)   70°F I (21°C)	587 (40) @0°F (-18°C)	864 (60) @122°F (50°C)