

Part No.

# FLP1-GR-QF-EH-SP

*Pressure FieldLab, 3000 psi / 200 bar / 20 MPa in Weatherproof enclosure and solar panel with pole mounting hardware*

Pressure FieldLab, 3000 psi / 200 bar / 20 MPa in Weatherproof enclosure and solar panel with pole mounting hardware



FLP1-GR-QF-EH-SP

## Included Items

- Enclosure Pole mounting kit - Fieldlab pole mounting kit for Outdoor Enclosure, 2 in (5 cm) pole (DGAU-0368-2)
- Solar Panel - FieldLab Solar Panel (DGAU-0372)
- Weatherproof Enclosure - FieldLab Outdoor Enclosure (DGAU-0373)
- Pressure FieldLab, 3000 psi / 200 bar / 20 MPa, Female Quick-test bottom connection - Pressure FieldLab, 3000 psi / 200 bar / 20 MPa, Female Quick-test bottom connection (FLP1-GR-QF)

## Specs/Attributes

|                           |                                                         |
|---------------------------|---------------------------------------------------------|
| Hose 1                    | Quick-test Hose, Stainless Steel ends, 2ft / 0.6m long  |
| Materials                 | ABS Plastic, Stainless Steel                            |
| Max Pressure              | 3000 PSI / 200 bar / 20 MPa                             |
| Max Operating Temperature | 130 °F / 54 °C                                          |
| Media Compatibility       | Air, Inert Gas, Natural Gas, Petroleum Based Oil, Water |
| Min Operating Temperature | 0 °F / -18 °C                                           |
| Pressure Reference        | None                                                    |
| Process Connection        | 1/4" Female NPT                                         |
| Seal Materials            | Viton                                                   |

Ralston Instruments Inc.

## Specs/Attributes

|                   |                                                                   |
|-------------------|-------------------------------------------------------------------|
| Country of origin | USA                                                               |
| Weight            | 21 lbs / 9.53 kg                                                  |
| Dimensions        | H: 9 in (22.86 cm) x W: 11.3 in (28.7 cm) x D: 17.5 in (44.45 cm) |

## Enclosure Pole mounting kit DGAU-0368-2

|                      |                                                              |
|----------------------|--------------------------------------------------------------|
| Materials            | Stainless Steel                                              |
| Country of origin    | USA                                                          |
| Hose 1               | Quick-test Hose, Stainless Steel ends, 2ft / 0.6m long       |
| Pressure Reference   | None                                                         |
| Process Connection   | 1/4                                                          |
| Reference Connection | 1/2                                                          |
| Weight               | 2 oz / 57 grams                                              |
| Dimensions           | H: 14 in (35.56 cm) x W: 10 in (25.4 cm) x D: 1 in (2.54 cm) |

## Solar Panel DGAU-0372

|                   |                                                                  |
|-------------------|------------------------------------------------------------------|
| Materials         | 316 Stainless Steel, Anodized Aluminum                           |
| Country of origin | USA                                                              |
| Weight            | 2.00 lbs / 905 grams                                             |
| Dimensions        | H: 12.5 in (31.75 cm) x W: 10 in (25.4 cm) x D: 2.5 in (6.35 cm) |

## Weatherproof Enclosure DGAU-0373

|                   |                                                                      |
|-------------------|----------------------------------------------------------------------|
| Materials         | 316 Stainless Steel, ABS Plastic, Polycarbonate, Powder Coated Steel |
| Country of origin | USA                                                                  |

## Pressure FieldLab, 3000 psi / 200 bar / 20 MPa, Female Quick-test bottom connection FLP1-GR-QF

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Accuracy - Pressure Measurement | +/- 0.02% of Full Scale (0-20% of Full Scale), +/- 0.1% of Reading (20-100% of Full Scale)                                                                                                                                                                                                                                                                                                                                                                                        |
| Battery Count                   | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Battery Life                    | 1000 Hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Battery Type                    | Lithium Ion rechargeable, 4.8 Ah Capacity                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Burst Pressure                  | 12000 PSI / 825 bar / 83 MPa                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Calibration Certificate         | NIST traceable (included)                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Certifications                  | Certified to CSA Standard C22.2 No. 61010-1, Conforms to UL / IEC / EN / AS Standard No. 61010-1, North America - Class 1 Division 1 Groups A-D, T4, (-10 < Ta < 50°C), ATEX - Ex II 1 G Ex ia IIC T4 Ga (-10 < Ta < 50 °C), IECEx - Ex ia IIC T4 Ga (-10 < Ta < 50 °C), UN/DOT 38.3 (Lithium Batteries), Complies with Pressure Equipment Directive 2014/68/EU, Complies with Low Voltage Directive 2014/35/EU, Complies with Electromagnetic Compatibility Directive 2014/30/EU |
| Country Adapters                | North America, Europe, United Kingdom, Australia, China                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Country of origin               | USA                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Datalogging                     | 2 million points (onboard)                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Engineering Units               | atm, bar, cmH2O @4°C, inH2O @39°C, kPa, MPa, mbar, psi, inHg @39°F, kgf / cm^2, mmHg @0°C, Torr, ftH2O @39°F, cmHg @ 0°C, oz / in^2                                                                                                                                                                                                                                                                                                                                               |
| Harmonized Code                 | 9026.20.0000                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

Ralston Instruments Inc.

## Pressure FieldLab, 3000 psi / 200 bar / 20 MPa, Female Quick-test bottom connection

FLP1-GR-QF

|                           |                                                              |
|---------------------------|--------------------------------------------------------------|
| LCD Display               | 3.5 in / 90mm Color TFT LCD Display                          |
| Materials                 | 316 Stainless Steel, Reinforced Polyamide                    |
| Max Operating Temperature | 120 °F / 50 °C                                               |
| Max Pressure              | 3000 PSI / 200 bar / 20 MPa                                  |
| Max Storage Temperature   | 165 °F / 75 °C                                               |
| Measurement Type          | Gauge Pressure                                               |
| Media Compatibility       | Air, Inert Gas, Natural Gas, Petroleum Based Oil, Water      |
| Min Operating Temperature | 14 °F / -10 °C                                               |
| Min Storage Temperature   | -20 °F / -29 °C                                              |
| Mounting Holes            | 3 x M5 Inserts (10 mm deep)                                  |
| Operating Altitude (max)  | 10,000 ft (3050 m)                                           |
| Power Input               | 90-264 VAC, 50-60 Hz                                         |
| Primary Power             | Battery Power                                                |
| Process Connection        | Female Quick-test                                            |
| Protection Class          | Pollution Degree 2 (UL / IEC 61010-1)                        |
| Relative Humidity         | 0% to 90% (-10 to 35°C) , 0% to 70% (35 to 50°C)             |
| Seal Materials            | Teflon, Viton                                                |
| Sensor Type               | High Precision MEMS                                          |
| Temperature Compensation  | 14 to 122°F (-10 to 50°C)                                    |
| USB Connection            | USB (Type B)                                                 |
| Wetted Materials          | 316 Stainless Steel                                          |
| Connector End 1           | Female Quick-test                                            |
| Weight                    | 2.56 lbs / 1.16 kg                                           |
| Dimensions                | H: 9 in (22.86 cm) x W: 5 in (12.7 cm) x D: 2.5 in (6.35 cm) |