# **R** Ralston Instruments

Part No.

## .C30-GF2M-TX125-00

LC30 Pressure / temperature gauge, 30 psi pressure, 1/4" Male NPT back connection, 1/4" Dia x 12" long external probe, 16ft cable

The LC30 is a robust device that measures and displays pressure readings on a large, backlighted screen. It is AC powered with a battery backup. The LC30 has the ability to show High and Low pressure values on-screen, change between 15 different engineering units or add custom engineering units. The included PC FieldLab Desktop software can be used for calibration, testing and logging pressure.



LC30-GF2M-TX125-00

#### **Specs/Attributes**

Max Operating Temperature  120 °F / 50 °C  Temperature  Media Compatibility  Inert Gas, Natural Gas, Petroleum Based Oil, Water		
Battery Life 1000 Hours  Calibration Certificate NIST traceable (included)  Certifications Certified to CSA Standard C22.2 No. 61010-1, 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 of origin USA  Datalogging PC based (via USB)  Electrical Rating 50 mA @ 5 VDC  Harmonized Code 9026.20.0000  Ingress Protection IP67 (1 meter water submersion for 30 minutes)  LCD Display 2.4 in / 61 mm segmented LCD Display  Materials ABS / Polycarbonate Blend, Powder Coated Aluminum  Max Operating Temperature  Media Compatibility Inert Gas, Natural Gas, Petroleum Based Oil, Water  Min Operating 10,000 ft (3050 m)  Panel Mount Yes  Power Input 90-264 VAC, 50-60 Hz  Primary Power AC Mains Power  Process Connection Back mount	Backup Power	AAA Alkaline (IEC-LR03)
Calibration Certificate NIST traceable (included)  Certifications Certifications Certifications Certified to CSA Standard C22.2 No. 61010-1, 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 of origin USA  Datalogging PC based (via USB)  Electrical Rating 50 mA @ 5 VDC  Harmonized Code 9026.20.0000  Ingress Protection IP67 (1 meter water submersion for 30 minutes)  LCD Display 2.4 in / 61 mm segmented LCD Display  Materials ABS / Polycarbonate Blend, Powder Coated Aluminum  Max Operating Temperature  Media Compatibility Inert Gas, Natural Gas, Petroleum Based Oil, Water  Min Operating Altitude (max)  Panel Mount Yes  Power Input 90-264 VAC, 50-60 Hz  Primary Power AC Mains Power  Process Connection Back mount	Battery Count	2
Certifications  Certified to CSA Standard C22.2 No. 61010-1, 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 of origin  USA  Datalogging  PC based (via USB)  Electrical Rating  50 mA @ 5 VDC  Harmonized Code  1967 (1 meter water submersion for 30 minutes)  LCD Display  2.4 in / 61 mm segmented LCD Display  Materials  ABS / Polycarbonate Blend, Powder Coated Aluminum  Max Operating Temperature  Media Compatibility  Inert Gas, Natural Gas, Petroleum Based Oil, Water  Min Operating Temperature  Operating Altitude (max)  Panel Mount  Yes  Power Input  90-264 VAC, 50-60 Hz  Primary Power  AC Mains Power  Process Connection  Back mount	Battery Life	1000 Hours
Country of origin USA Datalogging PC based (via USB)  Electrical Rating 100 mA @ 5 VDC  Harmonized Code Ingress Protection LCD Display Materials AB5 / Polycarbonate Blend, Powder Coated Aluminum Max Operating Temperature  Media Compatibility Inert Gas, Natural Gas, Petroleum Based Oil, Water  Min Operating Temperature  Doperating Altitude (max) Panel Mount Yes Power Input Process Connection USA Datalogging PC based (via USB) PC	Calibration Certificate	NIST traceable (included)
Datalogging PC based (via USB)  Electrical Rating 50 mA @ 5 VDC  Harmonized Code 9026.20.0000  Ingress Protection IP67 (1 meter water submersion for 30 minutes)  LCD Display 2.4 in / 61 mm segmented LCD Display  Materials ABS / Polycarbonate Blend, Powder Coated Aluminum  Max Operating Temperature 120 °F / 50 °C  Temperature Input 10,000 ft (3050 m)  Panel Mount Yes  Power Input 90-264 VAC, 50-60 Hz  Primary Power AC Mains Power  Process Connection Based minutes)	Certifications	Complies with Low Voltage Directive 2014/35/EU, Complies with Electromagnetic Compatibility Directive
Electrical Rating 50 mA @ 5 VDC  Harmonized Code 9026.20.0000  Ingress Protection IP67 (1 meter water submersion for 30 minutes)  LCD Display 2.4 in / 61 mm segmented LCD Display  Materials ABS / Polycarbonate Blend, Powder Coated Aluminum  Max Operating Temperature 120 °F / 50 °C  Media Compatibility Inert Gas, Natural Gas, Petroleum Based Oil, Water  Min Operating Temperature -4 °F / -20 °C  Temperature 10,000 ft (3050 m)  Panel Mount Yes  Power Input 90-264 VAC, 50-60 Hz  Primary Power AC Mains Power  Process Connection Back mount	Country of origin	USA
Harmonized Code 9026.20.0000  Ingress Protection IP67 (1 meter water submersion for 30 minutes)  LCD Display 2.4 in / 61 mm segmented LCD Display  Materials ABS / Polycarbonate Blend, Powder Coated Aluminum  Max Operating Temperature 120 °F / 50 °C  Media Compatibility Inert Gas, Natural Gas, Petroleum Based Oil, Water  Min Operating Temperature -4 °F / -20 °C  Operating Altitude (max) 10,000 ft (3050 m)  Panel Mount Yes  Power Input 90-264 VAC, 50-60 Hz  Primary Power AC Mains Power  Process Connection Back mount	Datalogging	PC based (via USB)
Ingress Protection IP67 (1 meter water submersion for 30 minutes)  LCD Display 2.4 in / 61 mm segmented LCD Display  Materials ABS / Polycarbonate Blend, Powder Coated Aluminum  Max Operating Temperature 120 ° F / 50 ° C  Media Compatibility Inert Gas, Natural Gas, Petroleum Based Oil, Water  Min Operating Temperature -4 ° F / -20 ° C  Temperature 10,000 ft (3050 m)  Panel Mount Yes  Power Input 90-264 VAC, 50-60 Hz  Primary Power AC Mains Power  Process Connection Back mount	Electrical Rating	50 mA @ 5 VDC
LCD Display  2.4 in / 61 mm segmented LCD Display  ABS / Polycarbonate Blend, Powder Coated Aluminum  Max Operating Temperature  Media Compatibility  Inert Gas, Natural Gas, Petroleum Based Oil, Water  Min Operating Temperature  Operating Altitude (max)  Panel Mount  Yes  Power Input  90-264 VAC, 50-60 Hz  Process Connection  Back mount	Harmonized Code	9026.20.0000
Materials  ABS / Polycarbonate Blend, Powder Coated Aluminum  Max Operating Temperature  Media Compatibility  Inert Gas, Natural Gas, Petroleum Based Oil, Water  Min Operating Temperature  Operating Altitude (max)  Panel Mount  Yes  Power Input  90-264 VAC, 50-60 Hz  Primary Power  AC Mains Power  Process Connection  Back mount	Ingress Protection	IP67 (1 meter water submersion for 30 minutes)
Max Operating Temperature  120 °F / 50 °C  Media Compatibility  Inert Gas, Natural Gas, Petroleum Based Oil, Water  Min Operating Temperature  -4 °F / -20 °C  Operating Altitude (max)  Panel Mount  Yes  Power Input  90-264 VAC, 50-60 Hz  Primary Power  AC Mains Power  Process Connection  Back mount	LCD Display	2.4 in / 61 mm segmented LCD Display
Temperature  Media Compatibility  Inert Gas, Natural Gas, Petroleum Based Oil, Water  Min Operating Temperature  Operating Altitude (max)  Panel Mount  Yes  Power Input  Primary Power  AC Mains Power  Process Connection  Back mount	Materials	ABS / Polycarbonate Blend, Powder Coated Aluminum
Min Operating Temperature  Operating Altitude (max)  Panel Mount  Power Input  Primary Power  AC Mains Power  Process Connection  Panel Mount  A ° F / -20 ° C  10,000 ft (3050 m)  10,000 ft (3050 m)  Power  A ° F / -20 ° C  10,000 ft (3050 m)  A ° F / -20 ° C  10,000 ft (3050 m)  A ° F / -20 ° C  A ° F / -20 °	Max Operating Temperature	120 °F / 50 °C
Temperature  Operating Altitude (max)  Panel Mount  Power Input  Primary Power  AC Mains Power  Process Connection  Back mount	Media Compatibility	Inert Gas, Natural Gas, Petroleum Based Oil, Water
(max)     Yes       Power Input     90-264 VAC, 50-60 Hz       Primary Power     AC Mains Power       Process Connection     Back mount	Min Operating Temperature	-4 °F / -20 °C
Power Input 90-264 VAC, 50-60 Hz  Primary Power AC Mains Power  Process Connection Back mount	. •	10,000 ft (3050 m)
Primary Power AC Mains Power  Process Connection Back mount	Panel Mount	Yes
Process Connection Back mount	Power Input	90-264 VAC, 50-60 Hz
	Primary Power	AC Mains Power
		Back mount



#### **Specs/Attributes**

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)
Temperature Compensation	None
USB Connection	USB (Micro B)
W1 Radio Installed	No
Wetted Materials	316 Stainless Steel
Connector End 1	1/4" Male NPT (ASME B1.20.1)
Weight	12.6 oz / 355 grams
Dimensions	H: 1.75 in (4.45 cm) x W: 3.4 in (8.64 cm) x D: 4.1 in (10.41 cm)

#### Sensor A (Back)

Max Operating Temperature	120 °F / 50 °C
Min Operating Temperature	-4 °F / -20 °C
Process Connection	1/4" Male NPT
Burst Pressure	120 PSI / 8.3 bar / 830 kPa
Media Compatibility	Air, Alcohol, Antifreeze, Ethylene Glycol, Hydraulic Oil, Inert Gas, Mineral Oil, Natural Gas, Petroleum Based Oil, Skydrol, Windshield washer fluid, Transmission fluid, Light motor oil, Ralston Calibration Oil, Water
Accuracy - Pressure Measurement	+/- 0.1% of Full Scale (ASME B40.100 Grade 4A/ISO Class 0.1)
Engineering Units	atm, bar, cmH2O @4°C, inH2O @39°C, kPa, mbar, psi, inHg @39°F, kgf / cm^2, mmHg @0°C, Torr, mmH2O @4°C, ftH2O @39°F, cmHg @ 0°C, oz / in^2
Measurement Type	Gauge Pressure
Max Pressure	30 PSI / 2 bar / 200 kPa
Wetted Materials	316 Stainless Steel
Sensor Type	Pressure Sensor
Country of origin	USA
Wrench Size	7/8 In 23 mm
Max Storage Temperature	165 °F / 75 °C
Min Storage Temperature	-40 °F / -40 °C

#### Sensor B (Back)

Max Probe Temperature	300 °F / 150 °C
Min Probe Temperature	-22 °F / -30 °C
Thermal Probe	1/4 in / 6.35 mm diameter, 12 in / 30.5 cm long, external cable, 20 ft / 6.1 m long
Wetted Materials	316 Stainless Steel
Measurement Type	Temperature
Media Compatibility	Air, Inert Gas, Natural Gas, Petroleum Based Oil, Water



### Sensor B (Back)

Accuracy - Temperature Measurement	+/- (0.15 +0.002* t )°C (IEC 60751 Class A)
Country of origin	USA
Electrical Connection	M12 female, A Code, Silicone seal, IP67
Temperature Units	°C, °F, K, R