

JISKOOT CWS31 CanWeigh System



Cameron's JISKOOT™ CWS31 CanWeigh system, which is approved for hazardous areas, can be used as part of an automatic sampling system to provide continuous monitoring of the sampling collection process as recommended by the international sampling standards.

The system provides accurate weight measurement of two sample receivers generating industry-standard 4 to 20 mA signals that have a direct linear relationship to the weight of the sample being collected. These signals, in conjunction with a suitable controller, enable the sampling system to be automated, enhancing system integrity, and ensuring compliance with standards.

A certified enclosure houses all components required to interface to the field equipment. A typical arrangement would include two load cells together with amplifiers, a number of solid-state relays, an optional power supply

unit for DC circuits, and the required fusing and terminations. All field connections from the safe area can usually be made to this single enclosure. This enclosure, together with its contents, is known as the control station, as it provides local control to the field equipment.

The load cells are connected to the control station via dedicated cables and provide measurement of the mass of accumulated sample in a receiver. The system is simple to calibrate and the constants are retained in non-volatile memory within the amplifier.

The load cells and associated connections are certified intrinsically safe.

The JISKOOT CanWeigh system can be configured to suit the sample receivers in use. For example, receivers can be placed vertically on platforms, as shown above, or suspended from an anchor point.

Features

- Tare limit testing of each receiver position in the system indicates that empty receivers are in place ready for a forthcoming transfer
- Easy-to-install system suitable for use with JISKOOT and other ISO 3171, IP 6.2, API 8.2, and ASTM D4177 sampler controllers
- Automatic switching to a second or standby receiver when the first is sensed as being full, or alternating receivers for a continuous flow pipeline application (when used with a suitable controller)
- Performance factor calculations in line with API 8.2, ISO 3171, and IP 6.2 sampling standard recommendations provide reportable evidence of the integrity of the whole sample collection process (when used with a suitable controller)
- Load cells include mechanical overload protection
- Monitoring of the performance factor can provide early warning indicators of reduced system performance, enabling predictive maintenance to reduce downtime

Specifications

CWS31	Supply voltage: Internal power consumption:	115 and 230 VAC (85 to 250 VAC) at 50 to 60 Hz 24 VDC (20 to 28 VDC) 21 watts maximum
Solid-State Relay	Pull-in voltage: Control voltage: Contact rating:	5 to 24 VDC 110/220 VAC or 24 DC 0.5 Amp (1A maximum)
Load Cell Amplifier	Current output: Maximum load: Bridge supply: Supply voltage: Frequency: Power consumption:	4 to 20 mA 600 Ohms 8 volts DC 24 to 230 VAC ± 10% 24 to 250 VAC ± 20% 50 to 60 Hz 6 watts
Environmental Data	Operating and storage temperature: Humidity range: IP rating:	-4° F to 122° F (-20° C to 50° C) <95% RH non-condensing IP 67
Hazardous Area Approval	Certified to: Equipment category/group: Classification:	ATEX 94/9/EC II 2G EEx d IIB T6

LOCATIONS

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