

## REMOTE DATA CONCENTRATOR (RDC)



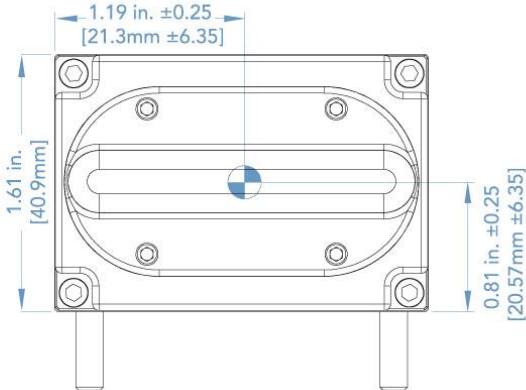
### CAPABILITIES

- Captures analog and discrete sensor inputs at remote locations
- Software-defined data acquisition
- Safety critical soft-core processor for customer loadable analysis software
- ARINC 429, Ethernet (including PTP), MIMO Wi-Fi, and Bluetooth® outputs
- Lightweight and compact design
- Battery-powered option capable of charging in extreme temperature environments
- Electrically isolated 28 VDC input
- Unregulated 15 VDC, regulated 10 VDC, and current source outputs
- Internal ambient temperature sensor and vibration immune triaxial thermal accelerometer
- Programmable gain amplifiers
- Design Assurance to DO-254 and DO-178
- Qualified to DO-160G and MIL-STD-810F / 461F / 704F

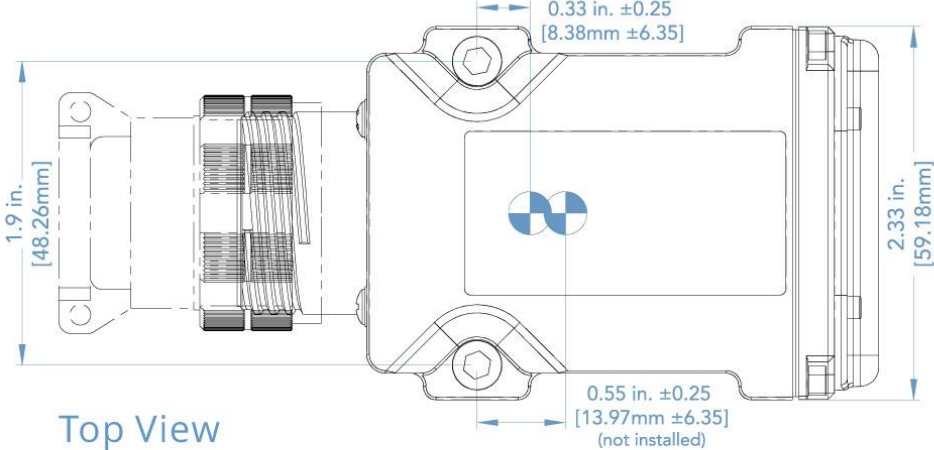
TYPE		STANDARD RDC	WIRELESS RDC
Inputs	Digital:	ARINC-429, ARINC-717, MIL-STD-1553	
	Analog:	Discretes, Frequency, Strain Gauges, Synchron LVDT/RVDT, 4 to 20 mA Current Loop, RTD	
Outputs		ARINC-429, Ethernet, IEEE 1588	ARINC-429, Ethernet, IEEE 1588, MIMO Wi-Fi, Bluetooth®
Physical	Height:	1.6 in. (40.88mm)	1.6 in. (40.88mm)
	Width:	1.9 in. (49.3mm)	2.33 in. (59.2mm)
	Depth:	3.0 in. (77mm)	4.01 in. (101.9mm)
	Weight:	0.55 lb. (250g)	1.0 lb. (454g)
Power	Input Power:	28 VDC	
	Consumption:	5 W	
	Battery:	n/a	Sealed lead acid
J1 Connectors	Interface:	MIL-STD-D38999/20FF355A	
	Mating:	MIL-STD-D38999/26FF35PA	
Environmental		(DO-160G & MIL-STD-810F / 461F / 704F)	
	Operating Temp.:	-55 °C to 70 °C (-67 °F to 158 °F)	
	Non-operating Temp.:	-55 °C to 85 °C (-67 °F to 185 °F)	
	Humidity:	100%	
	Operational Altitude:	55,000 ft.	
	Operational Shock:	20 g	
	Vibration:	14 g	
	EMI/EMC:	DO-160G, MIL-STD-810F / 461F / 704F	
Reliability:	> 14,000 operating hrs. MTBF		
Cooling:	Passive convection		
Internal Sensor		Thermal sensors MEMS thermal triaxial accelerometer	

# RDC – Wireless Dimensions

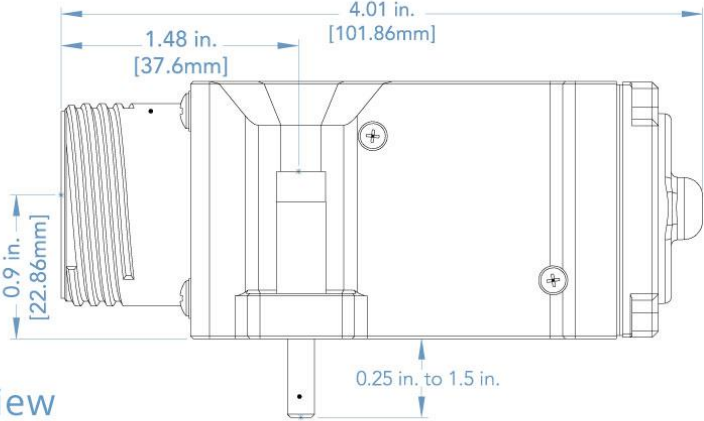
Back View



Top View



Side View



Feel free to contact us at [contact@vibratech.fr](mailto:contact@vibratech.fr) for more details