+61 7 3186 0203
sales@greaseboss.io
www.greaseboss.io

Sunshine Coast, QLD,
Australia
San Francisco, CA, USA

Endpoint BF Specification



107.5mm (height)



102mm (width)

102mm (length)

The GreaseBoss Endpoint BF is an IoT flow meter designed for **high-accuracy monitoring** of high grease flow rates in industrial machinery, transmitting data to a nearby GreaseBoss Gateway, which is then collated and **reported to end users via the secure GreaseBoss Cloud**.

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DEVICE

Housing Materials	Aluminium, Stainless Steel, Nylon, PET, Polycarbonate
Dimensions	102 x 102 x 107.5 mm (4.0 x 4.0 x 4.2 in)
Mass	1.7 kg (3.7 lbs)
Mounting Options	M5 Bolts x4, Bracket Mount, Magnet Mount

FLOW METER

Ports	1
Inlet Threads	3/4" BSPP Female
Flow Meter Type	Oval gear positive displacement
Oval Gear Materials	(TBA)
O-ring Material	Nitrile
Flow Direction	Bidirectional
Flow Sensing	Bidirectional
Flow Resolution	5.88 cc (0.36 in^3)
Max Flow Rate	(TBA) L/min
Maximum Pressure	5000PSI (34MPa)

ELECTRONICS

Wireless Protocol	Bluetooth Low Energy
Battery Life	3 to 5 years
Battery Spec	1x 2600 mAH SAFT LS 14500

ENVIRONMENTAL

Operating Temperature	-40°C to 85°C (-40°F to +185°F)
Ingress Protection Rating	Designed to IP68

REGULATORY & TYPE APPROVALS

Regulatory	CE, UKCA, FCC, IC (ISED), RCM, WEEE
Radio Module Approval	Contains FCC ID: XPYBMD380 Contains IC: 8595A-BMD380
Equipment Class	Class A digital device (industrial environment)

EMC EMISSIONS & IMMUNITY

Standards	CE/UKCA: EN 301 489-1 V2.2.3 (2019-11) EN 301 489-17 V3.2.4 (2020-09) FCC/ISED (IC): 47 CFR Part 15 Subpart B, Class ICES-003 Issue 7, Class A
Radiated Emissions	EN 55032:2015 + A11:2020, Class A (30 MHz to 6 GHz) 47 CFR Part 15 Subpart B, Class A (30 MHz to 12 GHz) ICES-003 Issue 7, Class A
ESD	EN 61000-4-2:2008
Radiated Immunity	EN 61000-4-3:2006
Power Frequency Magnetic Field	EN 61000-4-8:2010
Not Applicable	Conducted emissions and mains immunity - the device is battery powered with no mains connection

RF (SPURIOUS EMISSIONS)

Standards	CE/UKCA: ETSI EN 300 328 V2.2.2 (2019-07), Clause 4.3.1.10 FCC 47 CFR Part 15 Subpart C KDB 996369 IC (ISED): RSS-247 Issue 3
Frequency Band	2402 to 2480 MHz (Bluetooth Low Energy)
Maximum Transit Power	+8 dBm conducted

RF EXPOSURE

Standards	FCC: 47 CFR § 1.1310, § 2.1091 KDB 447498 D01 General RF Exposure Guidance v06 IC (ISED): RSS-102 Issue 6 Health Canada Safety Code 6 CE/UKCA: EN 62311:2020 / IEC 62311:2019 ICNIRP 2020 Guidelines
Seperation Distance	20 cm minimum between the radiator and all persons

SAFETY

Standards	IEC 61010-1:2010 + AMD1:2016 + COR1:2019
National Differences Assessed	AU/NZ: AS 61010.1:2003 EU/CENELEC: EN 61010-1:2010 US: UL 61010-1:2012 Canada: CSA C22.2 No. 61010-1-12:2012

MOUNTING

The device is mounted via four rear-face threaded holes. Refer to the Rear Mounting view in the product drawing for the hole pattern.

- 4× M5×0.8, 10.0 mm minimum thread, 14.0 mm deep
- Hole pattern: 56.57 mm × 56.57 mm

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