



- Waterproof rugged enclosure
- MIL-STD two piece whip
- NVIS operation
- Solid state - no moving parts

The Barrett 2019 is an automatic tuning mobile antenna, designed to interface with Barrett 2000 series transceivers.

Providing a frequency coverage of 2 MHz to 30 MHz, the Barrett 2019 features rapid tuning (typically <1.5 S) and low power consumption. High radiation efficiency and accurate tuning are assured by maximising antenna current (not minimising the VSWR) on every tune. The Barrett 2019 antenna incorporates a wideband amplifier that is activated in receive mode to enable channel scanning. Due to its rugged RF design, the Barrett 2019 antenna can also be used with high duty cycle applications such as the Barrett 923 or 2020 fax and data system and is compatible with ALE operation.

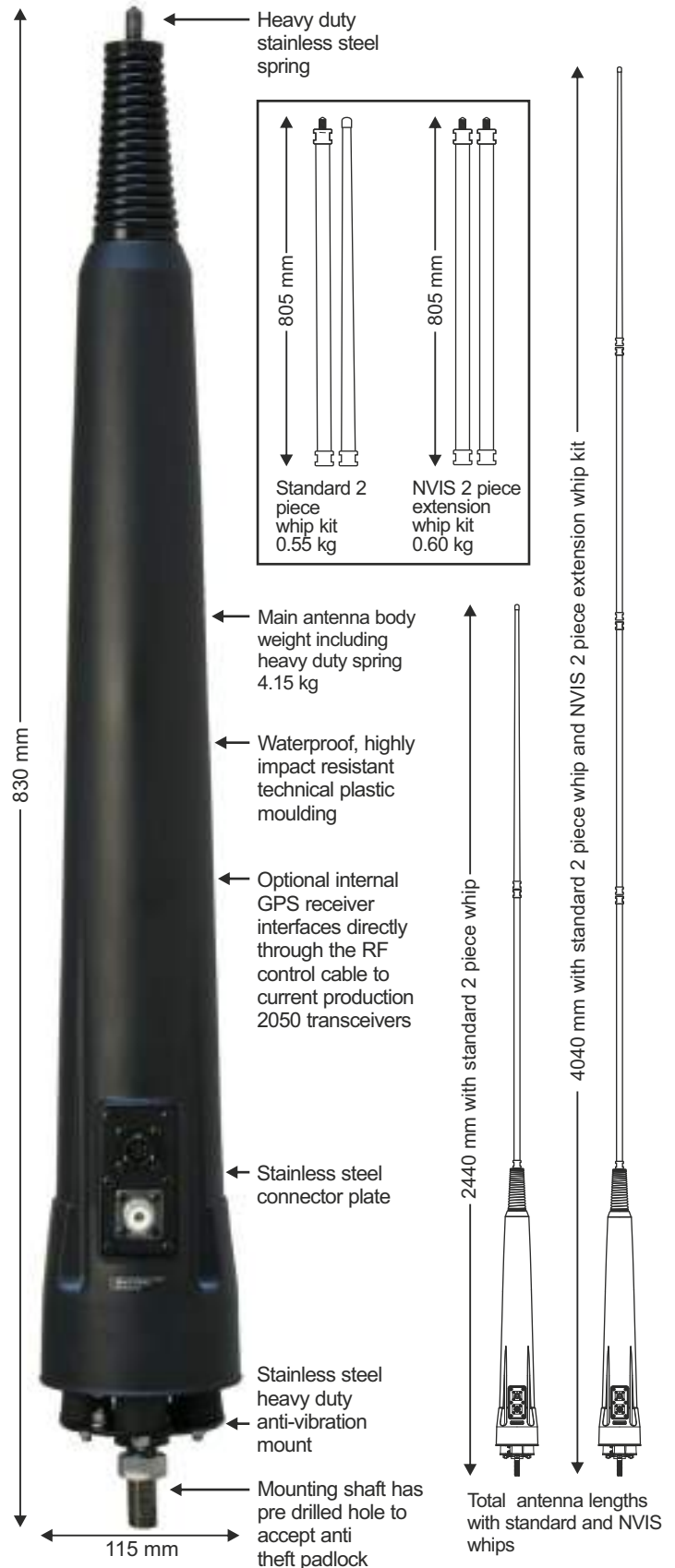
An optional GPS receiver can be fitted within the 2019 antenna casing and interfaces directly through the RF control cable to current production 2050 transceivers. The active tuning elements of the antenna are housed in black waterproof, highly impact resistant technical plastic moulding. The housing incorporates a heavy duty anti-vibration mount at its base. Even with its rugged construction, the Barrett 2019 weighs only 3.6 kg.

The Barrett 2019 is supplied standard with a two piece fibreglass MIL-STD whip and a tapered spring. An optional NVIS extension is available in the form of two extra whip sections. The main antenna body has a MIL-STD control cable connector and a UHF RF connector. The 2019 is supplied with a 6 metre composite control and RF cable and connectors to connect it with the transceiver. A 10 metre control RF cable is available as an accessory.

### General specifications

<b>Frequency range</b>	2 MHz to 30 MHz (continuous)
<b>Power handling capability</b>	150 W PEP
<b>VSWR</b>	Better than 2:1 when tuned
<b>Tuning time</b>	Less than 1.5 seconds (typical)
<b>Operating temperature</b>	-30°C to +60°C
<b>Humidity</b>	95% relative, non-condensing
<b>Environmental</b>	IP67
<b>Supply voltage</b>	12.6 V DC (derived from transceiver)
<b>Antenna impedance</b>	50 ohm unbalanced
<b>Mounting</b>	M16 stud with provision for padlock
<b>Weight</b>	Main antenna body weight including heavy duty spring 4.15 kg Average 600 mA @ +12.6 V input
<b>Input current</b>	Average 600 mA @ +12.6 V input
<b>Standards</b>	Complies with MIL-STD 810G for drop, dust, temperature, shock and vibration

Specifications are typical. Equipment descriptions and specifications are subject to change without notice or obligation.



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ISO 9001  
BUREAU VERITAS  
Certification

