

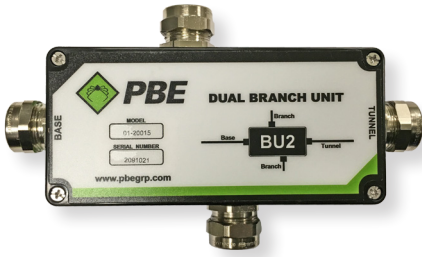
BU2

Dual Branch Unit



INNOVATING SAFETY. POWERING PRODUCTIVITY.

The Dual Branch Unit (BU2) is a passive device used to branch off (one input, three outputs) off two Leaky Feeders.



FEATURES OVERVIEW

- MSHA Approval 23-A090001-0
- Intrinsically Safe
- Compatible with Voice and Data communications
- 3 x Internal isolation jumpers
- Terminal and saddle connections
- Minimum IP55/NEMA4X enclosure

THE DUAL BRANCH UNIT - BU2:

The Dual Branch Unit (BU2) provides a dual balanced RF output with a minimum of attenuation and voltage loss through the branches and passes DC voltage to down stream amplifiers. The BU2 utilizes PBE's proprietary Leaky Feeder terminal and saddle connections rather than coaxial connectors (which can cause higher voltage drops and present challenges to installation and field maintenance).

The device is Jumper configurable and provides the following settings which can be selected during installation:

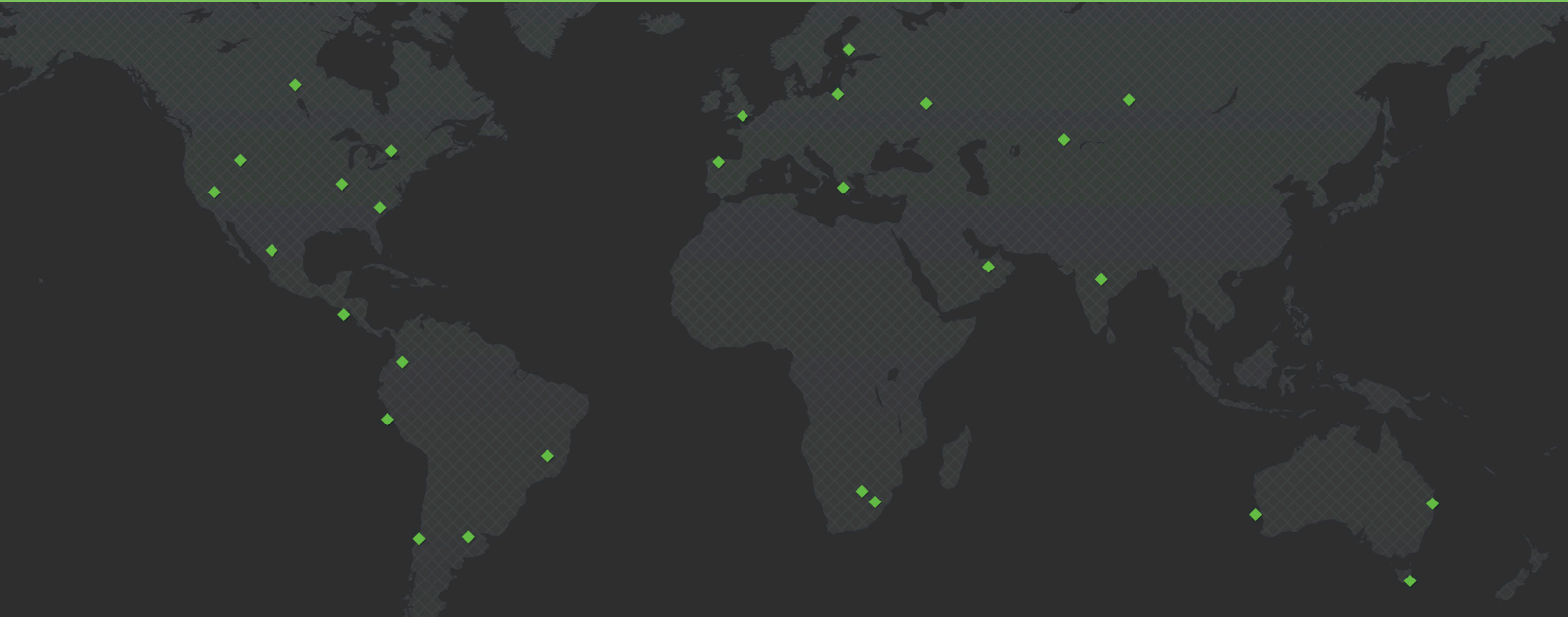
- Passes both RF and DC to the branch (normal operation)
- Isolate or terminate the branch (blocks both RF and DC from entering the branch cable)
- Isolate DC in the port (blocks DC from entering the branch cable).

INSTALLATION:

Dual Branch Units are designed for easy assembly underground without the need for specialized tools or skills. Refer to the Leaky Feeder Cable Tech Sheet (TS-0009-001) or Manual (004-0359-001) for cable preparation methods. See System Design Guide drawing (01-20000-05 for VHF or 01-30001-05 for UHF) for device spacing.

SPECIFICATIONS:

Frequency:	VHF & UHF
Output to Output Isolation:	-20 dB Min
Insertion Loss:	Through main line – 4 dB (-6 dB UHF); Branch 1 & Branch two – 8 dB (-10 dB UHF)
Impedance:	75 ohm
VSWR:	1.4:1 (148 – 175 MHz) / (435 – 500 MHz); 1.2:1 (20 to 120 MHz)
Through Current Capacity:	1.5 amps
Power Requirements:	None
Connections:	Proprietary - brass screw terminal and saddle (optional N type)
Enclosure:	IP55/NEMA4X heavy duty enclosure
Weight & Dimensions:	1.2 kg; 215 (w) x 140 (d) x 60 (h) mm; (2 lb 10 oz; 8.5 (w) x 5.5 (d) x 2.4 (h) inches)



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