



Two-Way High-Output Indoor / Outdoor Monitor Speaker

CONTROL-31

SKU: 78819 UPC: 691991000805

The Control 31 utilizes high-power components, computer optimized horn, and a complex network to achieve smooth, powerful high-fidelity performance, extended bandwidth, and well-controlled defined coverage from a compact loudspeaker.

The 250 mm (10 inch) low-frequency driver features a woven fiberglass cone for a high degree of weather capability and pure butyl rubber surround for clean sound quality, a high-temperature fiberglass voice coil former for high sensitivity, high output capability and stable performance under long-term high power working conditions. The optimized cone geometry provides for smooth frequency response and good off-axis performance. A linear suspension spider provides low distortion, while FEA-optimized motor construction produces minimum harmonic distortion. An aluminum coupler ring outside the pole post further reduces distortion and further increases the sensitivity.

Features

- 250 mm (10 in) woven fiberglass cone LF driver with 52 mm (2 in) voicecoil.
- High-output 2414H-C compression driver with 25 mm (1 in) exit, unique (patented) design and high-temperature polymer diaphragm.
- 250 Watt capability (in 8? thru setting), plus 150 Watt transformer for 70V or 100V distributed lines, with 8? thru bypass.
- Extended bandwidth, extremely smooth frequency response
- Highly outdoor-capable design with included WeatherMax™ multi-layer grille and optional marine-kit grille for salt-air environments.
- 110° x 110° symmetrical coverage.
- Includes InvisiBall® mounting hardware plus ten 6 mm attachment points for suspension and optional U-bracket.
- Included sealed input panel cover and screw-down input terminals for secure connection.

Frequency Range (-10dB)	33Hz – 19kHz
Frequency Response (±3 dB)	42Hz – 14kHz
Power Rating	250 W (1000 W peak), 2 hrs. 200 W (800 W peak), 100 hrs.
Maximum SPL (1m)	116 dB continuous (123 dB peak)
Sensitivity	92 dB
Coverage Angle	110°H x110°V
Directivity Factor (Q)	5.7, averaged 500 Hz to 10 kHz
Directivity Index (DI)	7.3 dB, averaged 500 Hz to 10 kHz
Impedance	8 ohms
Crossover Type	2nd order low-pass, 2nd order high-pass, plus conjugate shaping circuitry.
Transformer Taps	70V: 150W, 75W, 38W, 19W 100V: 150W, 75W, 38W Insertion Loss: <0.65 dB at any tap setting Thru Setting: 8? nominal

Recommended High-Pass	Protective 40 Hz high-pass (24 dB/oct) for any transformer tap and for 8 Ω operation
Drivers	LF: 250 mm (10 in) woven-fiberglass cone with pure butyl rubber surround, 52 mm (2 in) voice coil on high-temperature fiberglass voice coil former, optimized cone geometry, linear suspension spider, FEA-optimized motor construction, aluminum ring on pole piece. HF: JBL 2414H-C compression driver with 25 mm (1 in) diaphragm and voice coil diameter, high temperature polymer diaphragm, JBL-patented design, fluid-cooled.
Enclosure	High impact Polystyrene (HIPS) with 10% glass fill plus patent-pending internal 5 mm foamed polyurethane secondary mold for additional cabinet density.
Grille	Zinc-plated and thermoset-composite coated steel, WeatherMax™ multi-layer foam with tight-weave mesh vapor barrier.
Mounting hardware	InvisiBall wall-mounting system included. Ten 6 mm attachment points on cabinet for suspending or for optional U-bracket. One 6 mm secondary safety attachment point (for forged shoulder steel eyebolt, not included) on back panel.
Outdoor Capability	IP-55 per IEC529. Exceeds MilSpec 810 for humidity, salt-spray, temperature & UV. Passes MilStd-202F for salt spray. Optional MTC-30MK marine-kit grille increases longevity in highly corrosive environments.
Input Connectors	Screw-down terminal strip, zinc-plated copper based, nickel-plated metal screws and washers. Accepts up to 9 mm outside 4 mm inside open lugs (#6, #8, or #10 lug), plus bare wire (up to 12 AWG / 2.5 mm ²).
Safety Agency	Transformer is listed per UL1876
Dimensions (H x W x D)	593 x 372 x 345 mm (23.3 x 14.6 x 13.5 in)
Net Weight (each)	18.8 kg (41.5lb)
Shipping Weight	22.0 kg (48.5 lb)
Included Accessories	1 pc MTC-PC2 input panel cover, InvisiBall wall-mounting system, 6 mm x 305 mm InvisiBall hex wrench.
Optional Accessories	MTC-30MK Marine-Kit Grille in black or white (-WH), consisting of grille and protective covers for baffle screws. MTC-30CM (&-WH) Ceiling-Mount Adapter for installing speaker down from the ceiling. MTC-30UB (&-WH) U-Bracket