Technical Data Sheet

CMS 403ICTe





Features

- Newly refined 100 mm (4.0") ICT transducer for greater durability and longevity
- High power & high sensitivity with extended frequency response
- Wide, controlled, constant directivity dispersion for optimum coverage
- Does not suffer from energy loss in the vertical plane at crossover as with two-way discrete designs
- Low insertion-loss, 30 W line transformer for a more powerful and dynamic performance
- Convenient front-tapping switch for settings
- Adjustable tilt angle with 360-degree rotation to accomodate difficult loudspeaker placements
- Three-clamp, self-aligning mounting system
- UV/weather resistant UL94V-0 ABS construction for structural integrity
- Packaged with classic grille, tile rails and C-ring for quick and easy installation and simple stocking logistics
- Five year warranty

Applications

- Voice Alarm Systems
- Multizone Foreground Music & Paging Systems
- Boardrooms & Offices
- Business Music Systems
- Airports, Convention Centres, Hotels
- Reception / Waiting Rooms
- Houses of Worship
- Retail Outlets / Shopping Malls
- Lounges / Bars
- Cruise Ships
- Courtrooms

Product description

The Tannoy CMS 403ICTe is a wide bandwidth, high power-handling and high sensitivity loudspeaker built around CMS 3.0 – the third generation of Tannoy's revolutionary Ceiling Monitor System technology. Incorporating a newly refined version of Tannoy's proprietary ICT[™] point-source driver, the CMS 403ICTe has been re-engineered for optimum compatibility with Lab.gruppen commercial amplifiers while also delivering consistent broadband directivity, precise articulation for voice and music, and exceptional long-term reliability.

The point source configuration of the Tannoy ICT driver's mid-bass and tweeter sections ensures a wide and controlled dispersion for optimum coverage, avoiding significant energy losses in the vertical plane at the crossover frequency, a flaw inherent in typical two-way designs. The ICT (Inductive Coupling Technology) drive unit also addresses two common component failures in background music systems: the tweeter and the crossover. Use of wireless electromagnetic coupling to drive the tweeter means that no crossover is required, making the ICT drive unit exceptionally reliable and ideal for applications where constant heavy usage is the norm. The mineral-loaded polypropylene cone material and nitrile rubber surround further enhance durability and long-term reliability.

Specifically designed for fast, simple and cost effective installation in new and existing buildings, the CMS 403ICTe features a self-aligning clamp system. The "eyeball" design allows the driver to be entirely angled towards the listener within the fixed ceiling-mounting ring.

The CMS 403ICTe utilizes a 16 ohm driver, making it ideal for use in high performance low-impedance systems (with optimized performance when used in conjunction with Lab.gruppen LUCIA amplifiers). A low-insertion loss 30 W transformer is included, with convenient front switching for taps at 30 W, 15 W and 7.5 W, with an additional 3.75 W tap for traditional constant voltage systems.

The CMS 403ICTe is supplied with an integral back-can, ready to install as a single unit. The removable locking connector has screw terminals for secure wire termination and loop-thru facility. All models are supplied with two tile support rails and one C-ring; a plaster mud ring is available as an optional accessory.

Physical data

Bezel diameter: Front of ceiling to rear of pod: 205.0 mm (8.07")

Hole Cutout Diameter: 187.0 mm (7.36")

147.6 mm (5.81")







. Ø181.1 [7.13"]







Technical Data Sheet Performance measurements





1 m on-axis Frequency Response

Anechoic Frequency Response



Impedance



Off-axis Frequency Response

CMS 403ICTe

Beamwidth vs Frequency



Frequency (Hz)

Beamwidth

Directivity Index (DI)



Directivity Index

Technical Data Sheet Polar plots (1/3 octave)

CMS 403ICTe













Technical Data Sheet Specifications

CMS 403ICTe

Performance		Ordering Information
Frequency response (-3 dB) ⁽¹⁾	110 Hz - 22 kHz	Part Number Colour
Frequency range (-10 dB) ⁽¹⁾	80 Hz - 24 kHz	8001 7760
System sensitivity (1 W @ 1 m) (2)	88 dB (1 W = 4 V for 16 Ohms)	CMS 403ICTe White /
Nominal Coverage Angle	90 degrees conical	Paintabl
Coverage Angle (1 kHz to 6 kHz)	120 degrees	0001 1100
Directivity Factor (Q)	5.26 averaged 1 kHz to 6 kHz	8001 4180
Directivity Index (DI)	6.30 averaged 1 kHz to 6 kHz	CMS 403e Zinc Plat Plaster (Mud) Bing Steel
Power Handling ⁽³⁾		Haster (Mud) Hing Oteen
Average	50 W	
Programme	100 W	
Peak	200 W	
Recommended Amplifier Power	100 W @ 16 ohms	
Nominal Impedance (Lo. Z)	16 ohms	
Rated maximum SPL		
Average	105 dB	UL-2043
Peak	111 dB	
Transformer Taps (via front rotany switch)		N
70 V	30 W (165 O) / 15 W (330 O) / 7 5 W (660 O) / 3 75 W (1320 O) /	NOTES:
70 0	OFF & low impedance operation	an JEC baffle in an Anechoic Chamber
100 V	30 W (330 Q) / 15 W (660 Q) / 7 5 W (1320 Q) /	 Unweighted pink noise input, measured a
	OFF & low impedance operation	1 metre on axis
Crossover	7 kHz inductively coupled	3. Long term power handling capacity as de
		in EIA - 426B test
Transducers		
Low Frequency	100 mm (4.00") mineral loaded polypropylene	 A full range of measurements, performance data CLE and EaseTM Data for CMS 403ICTe can be
High Frequency	19 mm (0.75") ICT aluminium dome	downloaded from www.tannovpro.com.
Physical		Tannoy operates a policy of continuous research
Enclosure		and development. The introduction of new mate
Backcan	Reflex loaded UL 94V-0 rated ABS	or manufacturing methods may introduce variati
Baffle	Reflex loaded UL 94V-0 rated ABS	always will equal or exceed the published
Grille	Steel, with weather resistant coating	specifications, which Tannoy reserves the right t
Safety Features	Safety ring located at rear of enclosure for load bearing safety bond	alter without prior notice. Please verify the latest
Connectors	Removable locking connector with screw terminals with	specifications when dealing with critical applicat
	"loop through" facility	
Compliance	UL-1480, UL-2043, CE	Copyright (c) 2014 Tannoy Limited. All rights reser
Dimensions		
Bezel diameter	205.0 mm (8.07")	
Front of ceiling to rear of pod	147.6 mm (5.81")	
Hole cutout diameter	187 mm (7.36")	
Net Weight (ea)	TBA	
Included Accessories	C-Ring, tile-bridge kit, paint mask, cut-out template, grille	
Optional Accessories	Plaster (mud) ring	
-		1

Packed Quantity

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http://acctech.ru/cat/polochnaya_akustika/