

CMS CEILING MONITOR SYSTEMS INSTALLATION MANUAL

CMS801 DC BM CMS801 DC PI CMS801 sub BM CMS801 sub PI CMS801 PI back can

Re date : 21/01/11



Tannoy (Direct UK) TCGI (ROW sales) TCGA (Americas sales) Tannoy Middle East

T: 00 44 (0) 1236 420199 T: 00 45 8742 7000 T: 00 1 (519) 745 1158 T: 00 971 (04) 4401 208

E: enquiries@tannoy.com E: info@tcgroup-international.com E: info@tcgroup-americas.com E: enquiries@tannoy.com



6481 0499

CMS801 TEMPLATE HOLE CUTOUT SIZE: 295mm (11.61")

Tannoy adopts a policy of continuous improvement and product specification is subject to change.



CMS

CONTENTS

- 1 QUICK START GUIDE
- 2 INTRODUCTION
- **3 UNPACKING**
- **4 SAFETY NOTICES**
- **5 PRODUCT FEATURE IDENTIFICATION**
- 6 ACCESSORIES
- 7 INSTALLATION GUIDE
 - 7.1 Mechanical Installation guide for suspended ceilings
 - 7.2 Mechanical Installation guide for sheet-rock ceilings
 - 7.3 Mechanical Installation instructions for optional plaster ring
 - 7.4 Instructions for pre-installation back-can (PI Models only)
- 8 WIRING AND SETTING UP

9 **DIMENSIONS**

- 9.1 CMS801 DC BM Dimensions
- 9.2 CMS801 DC PI Dimensions
- 9.3 CMS801 SUB BM Dimensions
- 9.4 CMS801 SUB PI Dimensions
- 9.5 CMS801 PI Back Can Dimesions

10 TECHNICAL SPECIFICATIONS

- 10.1 CMS801 DC Specifications
- 10.2 CMS801 SUB Specifications
- 11 PAINTING
- 12 WARRANTY
- **13 DECLARATION OF CONFORMITY**

1. QUICK START GUIDE

- 1. Cut hole using provided template.
- 2. Attach rails to C ring.
- 3. Install assembled unit on grid.
- 4. Drop can in through C Ring.
- 5. Perform wiring and affix conduit if necessary.
- 6. Finish with PI speaker from below by turning screws to extend clamps.

2. INTRODUCTION

Thank you for purchasing this Tannoy Ceiling Monitor System product. This product range is suited for high-level music and speech reinforcement applications requiring exceptional sonic quality with uncompromised reliability.

3. UNPACKING

Every Tannoy product and accessory is carefully inspected before packing. After unpacking, please inspect your product to make sure no damage has occurred in transit. In the unlikely event of any damage, would you please notify your dealer immediately and retain your shipping carton, as your dealer may ask you to return the faulty unit to him for inspection.

Each CMS loudspeaker is packed in pairs and provided with the following accessories as standard; C Ring, tile-bridge kit, grille, cut-out template, and paint mask. A plaster (mud) ring is also available as an optional extra.

4. SAFETY NOTICES

Some regional construction codes require the use of a secondary method of securing loudspeakers in ceiling to provide security of a back up support. A secondary support line should be attached from the safety loop on the rear of the product to a source point on the ceiling. Please consult the relevant construction codes in your region.

When using a power driver to install the product it is essential to use the correct torque level settings to avoid over tightening and damage to the ceiling material or clamps.

Recommended torque setting: 1.5Nm

Tannoy will not be held responsible for any damages caused by the improper installation of these loudspeakers.

ELECTRICAL SAFTEY NOTICE:

To comply with the standard UL1480, metal - clad flexible conduit (BX) is required for connection to the terminal block for proper earth grounding.

In order to comply with UL regulations, the PI back-can must always be used with the CMS PI models.

SAFETY NOTE:

In order to comply with relevant fire safety regulations (i.e. BS 5839:1998), it is required that in the event of fire, that failure of the circuit to which the loudspeaker is connected does not occur before evacuation of the building is complete. Suitable measures include: -

a) use of terminal blocks (for connection to primary) with a melting point of not less than 650°C, for example constructed from ceramic materials;

c) use of terminal blocks of a lower melting point but protected with thermal insulation;d) use of terminal blocks such that, on melting, an open-circuit or a short-circuit does not occur.

5. PRODUCT FEATURE IDENTIFICATION:



Fig 1.1: The blind-mount (BM) models come with a pre-fitted back can



Fig 1.2: A pre-install (PI) model shown without pre-install back can



Fig 1.3: Pre-install (PI) back can for PI models

Note that the CMS801 PI model's transformer is pre-attached to the CMS801 PI back can for easy install.

6. ACCESSORIES:

Each product is supplied with the following accessories as standard:











Optional accessories:







Tile bridge kit

Note: A tile bridge kit must always be used when installing into suspended ceiling tiles



Cut-out template



60W Transformer

NOTE: for use with CMS801 PI model in distributed lines without back-cans.

4

() SS

7.1 MECHANICAL INSTALLATION GUIDE FOR SUSPENDED CEILINGS

Remove the ceiling tile from its frame and place it on a flat surface. Mark the 1 cut-out area on the ceiling tile by tracing around the template provided.

Cut out the hole in the ceiling tile using a circular saw or pad saw. 2

Place the C-ring and tile-bridge on top of the ceiling panel, aligning the C-ring over the hole, and screw the C-ring to the tile bridge using the fixings provided. 3

Slide the speaker assembly through the hole and turn the screws on the front of the

If using a power driver, Tannoy recommends a torque setting of 1.5Nm.

DO NOT OVERTIGHTEN!

speaker to extend the mounting wings. Tighten the screws until a firm grip is achieved.

- Slide the tile panel back into the suspended ceiling. The tile bridge ends will catch over 5 the railings, supporting the weight of the speaker.
 - Go to section 6 for instructions on wiring and set-up instructions.



TANKA O

1 Mark the cut-out area on the ceiling by tracing around the template provided.

Cut out the hole in the ceiling using a circular saw or pad saw, then slide the C-ring into the ceiling, aligning it over the cut-out hole). 2

- 3 Go to section 6 for wiring and set-up instructions then return to point 4 below.
- Slide the speaker assembly through the hole and turn the screws to extend the mounting 4 wings. Tighten the screws until a firm grip is achieved.

If using a power driver, Tannoy recommends a torque setting of 1.5Nm.

DO NOT OVERTIGHTEN!

5 Insert grille by pushing it onto the speaker.



7.2 MECHANICAL INSTALLATION GUIDE FOR SHEET-ROCK (PLASTER BOARD) CEILINGS









() SV

7.3 MECHANICAL INSTALLATION INSTRUCTIONS FOR OPTIONAL PLASTER RING:

An optional plaster (mud) ring bracket is available from Tannoy. This bracket is designed to be pre-installed into newly constructed, non-suspended ceilings.

Nail or screw the plaster ring to the joists. 1



- Lay the speaker wiring to where the speaker will be fitted and complete the 2 plastering work on the ceiling.
- 3 Cut out the hole in the ceiling using a circular saw or pad saw.



7.4 INSTRUCTIONS FOR PRE-INSTALLATION BACK CAN (PI MODELS ONLY):

AN OPTIONAL PRE-INSTALL BACK-CAN IS AVAILABLE FOR ALL PI (PRE-INSTALL) MODELS. THIS BACK-CAN IS DESIGNED FOR EITHER PRE-INSTALLATION INTO NEWLY CONSTRUCTED, NON-SUSPENDED CEILINGS, OR INSTALLATION INTO SUSPENDED CEILINGS WHEN ATTACHED TO THE C-RING AND TILE BRIDGE SUPPLIED.

Note that the CMS801 PI model's transformer is pre-attached to CMS801 PI back can for easy install.

1 Attach the back can to the installed conduit This can be attached in two ways:

a. You can use the clamp at the back of the pre-install back can. The product will accept a squeeze connector with a thread size of up to 22mm: To remove the cable clamp, simply unscrew the threaded washer (under the wiring cover) which holds the cable clamp in place and replace it with a conduit squeeze connector.

Conduit Conduit Squeeze Connector

b. You can use any of the three knock-out points at the sides of the PI back can (19mm, 22mm or 28mm diameter):

- Lay the speaker wiring to where the speaker will be fitted and complete the 2 plastering work on the ceiling.
- 3 Cut out the hole in the ceiling using a circular saw or pad saw

Go to section 6 for instructions on wiring and setting up then return to point 5 below. 4

Slide the speaker assembly through the hole and turn the screws to extend 5 the mounting wings. Tighten the screws until a firm grip is achieved.

If using a power driver, Tannoy recommends a torque setting of 1.5Nm.

DO NOT OVERTIGHTEN!

- Go to section 6 for instructions on wiring then return to point 5 below. 4
- Slide the speaker assembly through the hole and turn the screws to extend the mounting 5 wings. Tighten the screws until a firm grip is achieved.

If using a power driver, Tannoy recommends a torque setting of 1.5Nm.

DO NOT OVERTIGHTEN!

Insert grille by pushing it onto the speaker. 6











8. WIRING AND SETTING UP:

Open the wiring cover at the back of the speaker can to access the Euro type connector plug and socket.

- 2 For connection to an amplifier, use pins 1 and 2:
 - Pin 1 is positive • Pin 2 is negative

For connection to additional speakers in a distributed line, pins 3 and 4 are in parallel where:

- Pin 3 is negative
- Pin 4 is positive
- 3 Close the wiring cover and tighten both screws on the cable clamp. Use the rotary switch located on the front of the unit to select whether you wish to use the speaker in a low-impedance or distributed-line application.

THE SPEAKER IS SUPPLIED IN LOW IMPEDANCE MODE. NEVER CONNECT THE SPEAKER TO A 70/100 VOLT AMPLIFIER WHILE IT IS SET FOR LOW IMPEDANCE.

All CMS801 models use a 60W transformer. When using distributed-line systems, the transformer can be tapped at 60W, 30W and 15W, with an additional 7.5W tapping for 70.7V line systems.





9.2 CMS801 DC PI DIMENSIONS:

TEMPLATE HOLE CUTOUT SIZE: 295mm



9.3 CMS801 sub BM DIMENSIONS:







?

U/S





9.4 CMS801 sub PI DIMENSIONS:

TEMPLATE HOLE CUTOUT SIZE: 295mm







9.5 CMS801 PI BACK CAN DIMENSIONS:

TEMPLATE HOLE CUTOUT SIZE: 295mm



10.1 TECHNICAL SPECIFICATIONS:

System Frequency response (-3dB) ⁽¹⁾ 47Hz - 30kHz BM back can 40Hz - 35kHz BM back can 40Hz - 35kHz BM back can 41Hz - 35kHz Frequency range (-10dB) ⁽¹⁾ 41Hz - 35kHz Pl back can 92dB (1W = 2.83V for 8 System sensitivity (1W @1m) ⁽²⁾ 92dB (1W = 2.83V for 8 Nominal coverage angle 90 degrees concal Coverage angle (1kHz to 6kHz) 100 degrees conical Directivity factor (Q) 5.5 averaged 1kHz to 0 Directivity index (DI) 7.2 averaged 1kHz to 0 Rated maximum SPL 112dB (average) 118dB (peak) 110 (average) Power handling 4verage Average 90W Programme 180W Peak 360W Recommended amplifier power 180W @ 8 Ohms Nominal impedance 8 Ohms Transformer taps (via front rorary switch) 70V 100V 60W/30W/15W/7.5W/C & Low impedance ope 60W/30W/15W/OFF & Low impedance ope 60W/30W/15W/F	Enclosure Back can Baffle Grille Clamping Design Clamping Design Clamping Design Backcan Options Blind Mount (BM) Pre Install (PI) Cable Entry Options ikHz Conduit Knockouts Connectors Safety agency ratings (pending	Zinc plated steel Reflex loaded UL 94V-0 rated ABS Steel, with weather resistant coating Safety ring located at rear of enclosure for load bearing safety bond security toggle clamp Complete with fixed back can Separate back can for pre installation Cable clamp & squeeze connector for conduit up to 22mm 3 sets of horizontal positions 19/22/28mm 0.75/0.87/1.1"
Frequency response (-3dB) (1)47Hz - 30kHzBM back can40Hz - 35kHzFrequency range (-10dB) (1)40Hz - 35kHzBM back can41Hz - 35kHzPI back can92dB (1W = 2.83V for 8System sensitivity (1W @1m) (2)92dB (1W = 2.83V for 8Nominal coverage angle90 degrees concalCoverage angle (1kHz to 6kHz)100 degrees concalDirectivity factor (Q)5.5 averaged 1kHz to 0Directivity index (DI)7.2 averaged 1kHz to 0Rated maximum SPL112dB (average)118dB (peak)110 (average)Power handling40WAverage90WProgramme180WPeak360WRecommended amplifier power180W @ 8 OhmsNominal impedance8 OhmsTransformer taps (via front rorary switch)60W/30W/15W/7.5W/C & Low impedance ope100V60W/30W/15W/7.5W/C & Low impedance opeDistortion80	Enclosure Back can Baffle Grille Safety Features Ohms) Backcan Options Blind Mount (BM) Pre Install (PI) Cable Entry Options ikHz Conduit Knockouts Connectors Safety agency ratings (pending	Zinc plated steel Reflex loaded UL 94V-0 rated ABS Steel, with weather resistant coating Safety ring located at rear of enclosure for load bearing safety bond security toggle clamp Complete with fixed back can Separate back can for pre installation Cable clamp & squeeze connector for conduit up to 22mm 3 sets of horizontal positions 19/22/28mm 0.75/0.87/1.1"
Frequency range (-10dB) (1)40Hz - 35kHzBM back can41Hz - 35kHzFrequency range (-10dB) (1)41Hz - 35kHzPI back can92dB (1W = 2.83V for 8System sensitivity (1W @1m) (2)92dB (1W = 2.83V for 8Nominal coverage angle90 degrees concalCoverage angle (1kHz to 6kHz)100 degrees conicalDirectivity factor (Q)5.5 averaged 1kHz to 6Directivity index (DI)7.2 averaged 1kHz to 6Rated maximum SPL112dB (average)118dB (peak)110 (average)Power handling Average90WProgramme180WPeak360WRecommended amplifier power180W @ 8 OhmsNominal impedance8 OhmsTransformer taps (via front rorary switch) 70V60W/30W/15W/7.5W/0 & Low impedance ope 60W/30W/15W/0FF & Low impedance opeDistortion5000	Grille Grille Grille Grille Clamping Design Clamping Design Clamping Design Backcan Options Blind Mount (BM) Pre Install (PI) Cable Entry Options ikHz Conduit Knockouts Connectors Safety agency ratings (pending	Steel, with weather resistant coating Safety ring located at rear of enclosure for load bearing safety bond security toggle clamp Complete with fixed back can Separate back can for pre installation Cable clamp & squeeze connector for conduit up to 22mm 3 sets of horizontal positions 19/22/28mm 0.75/0.87/1.1" Removable locking connector with screw
Frequency range (-10dB) ⁽¹⁾ 41Hz - 35kHz PI back can 92dB (1W = 2.83V for 8 System sensitivity (1W @1m) ⁽²⁾ 92dB (1W = 2.83V for 8 Nominal coverage angle 90 degrees concal Coverage angle (1kHz to 6kHz) 100 degrees conical Directivity factor (Q) 5.5 averaged 1kHz to 0 Directivity index (DI) 7.2 averaged 1kHz to 0 Rated maximum SPL 112dB (average) 118dB (peak) 110 (average) Power handling Average Average 90W Programme 180W Peak 360W Recommended amplifier power 180W @ 8 Ohms Nominal impedance 8 Ohms Transformer taps (via front rorary switch) 70V 100V 60W/30W/15W/7.5W/OFF & Low impedance ope 100V	Safety Features Clamping Design Clamping Design Backcan Options Blind Mount (BM) Pre Install (PI) Cable Entry Options ikHz Conduit Knockouts Connectors Safety agency ratings (pending	Safety ring located at rear of enclosure for load bearing safety bond security toggle clamp Complete with fixed back can Separate back can for pre installation Cable clamp & squeeze connector for conduit up to 22mm 3 sets of horizontal positions 19/22/28mm 0.75/0.87/1.1" Removable locking connector with screw
System sensitivity (1W @1m) ⁽²⁾ 92dB (1W = 2.83V for 8 Nominal coverage angle 90 degrees concal Coverage angle (1kHz to 6kHz) 100 degrees conical Directivity factor (Q) 5.5 averaged 1kHz to 6 Directivity index (DI) 7.2 averaged 1kHz to 6 Rated maximum SPL 112dB (average) 118dB (peak) With THP60 110 (average) Power handling Average 90W Programme Peak 360W Recommended amplifier power 180W @ 8 Ohms Nominal impedance 8 Ohms Transformer taps (via front rorary switch) 70V 60W/30W/15W/7.5W/0 & Low impedance ope 100V 60W/30W/15W/0FF & Low impedance ope 8 Low impedance ope	Clamping Design Clamping Design Backcan Options Blind Mount (BM) Pre Install (PI) Cable Entry Options kHz Conduit Knockouts Connectors Safety agency ratings (pending	security toggle clamp Complete with fixed back can Separate back can for pre installation Cable clamp & squeeze connector for conduit up to 22mm 3 sets of horizontal positions 19/22/28mm 0.75/0.87/1.1" Removable locking connector with screw
System sensitivity (IW @ IIII) S2DB (IW = 2.53 v for the sensitivity of the general sensitivity (IW @ IIII) Nominal coverage angle 90 degrees concal Coverage angle (1kHz to 6kHz) 100 degrees conical Directivity factor (Q) 5.5 averaged 1kHz to 6 Directivity index (DI) 7.2 averaged 1kHz to 6 Rated maximum SPL 112dB (average) 118dB (peak) 118dB (peak) With THP60 110 (average) Power handling 4verage Average 90W Programme 180W Peak 360W Recommended amplifier power 180W @ 8 Ohms Nominal impedance 8 Ohms Transformer taps (via front rorary switch) 70V 100V 60W/30W/15W/7.5W/(& Low impedance ope 100V 60W/30W/15W/0FF & Low impedance ope 60W/30W/15W/0FF	Backcan Options Blind Mount (BM) Pre Install (PI) Cable Entry Options ikHz Conduit Knockouts Connectors Safety agency ratings (pending	Complete with fixed back can Separate back can for pre installation Cable clamp & squeeze connector for conduit up to 22mm 3 sets of horizontal positions 19/22/28mm 0.75/0.87/1.1" Removable locking connector with screw
Nominal coverage angle (1kHz to 6kHz) 100 degrees conical Directivity factor (Q) 5.5 averaged 1kHz to 0 Directivity index (DI) 7.2 averaged 1kHz to 0 Rated maximum SPL 112dB (average) 118dB (peak) 110 (average) Power handling 4verage Average 90W Programme 180W Peak 360W Recommended amplifier power 180W @ 8 Ohms Transformer taps (via front rorary switch) 70V 70V 60W/30W/15W/7.5W/C & Low impedance ope 60W/30W/15W/OFF & Low impedance ope 500W/30W/15W/OFF & Low impedance ope 60W/30W/15W/OFF		Complete with fixed back can Separate back can for pre installation Cable clamp & squeeze connector for conduit up to 22mm 3 sets of horizontal positions 19/22/28mm 0.75/0.87/1.1" Removable locking connector with screw
Coverage angle (1kHz to 6kHz) 100 degrees conical Directivity factor (Q) 5.5 averaged 1kHz to 0 Directivity index (DI) 7.2 averaged 1kHz to 0 Rated maximum SPL 112dB (average) 118dB (peak) With THP60 110 (average) Power handling Average 90W Programme Peak 360W Recommended amplifier power 180W @ 8 Ohms Nominal impedance 8 Ohms Transformer taps (via front rorary switch) 70V 60W/30W/15W/7.5W/0 & Low impedance ope 100V 60W/30W/15W/7.5W/0 & Low impedance ope Distortion 50000	Cable Entry Options Cable Entry Options Conduit Knockouts Connectors Safety agency ratings (pending	Cable clamp & squeeze connector for conduit up to 22mm 3 sets of horizontal positions 19/22/28mm 0.75/0.87/1.1" Removable locking connector with screw
Directivity factor (Q) 5.5 averaged 1kHz to (Directivity index (DI) 7.2 averaged 1kHz to (Rated maximum SPL 112dB (average) 118dB (peak) 118dB (peak) With THP60 110 (average) Power handling 4verage Average 90W Programme 180W Peak 360W Recommended amplifier power 180W @ 8 Ohms Nominal impedance 8 Ohms Transformer taps (via front rorary switch) 60W/30W/15W/7.5W/0 70V 60W/30W/15W/0FF & Low impedance ope 60W/30W/15W/0FF 00V 60W/30W/15W/0FF	JikHz Conduit Knockouts Connectors Connectors Safety agency ratings (pending	conduit up to 22mm 3 sets of horizontal positions 19/22/28mm 0.75/0.87/1.1" Removable locking connector with screw
Directivity index (DI) 7.2 averaged 1kHz to 0 Rated maximum SPL 112dB (average) 118dB (peak) With THP60 110 (average) Power handling Average Programme 180W Peak 360W Recommended amplifier power 180W @ 8 Ohms Transformer taps (via front rorary switch) 70V 60W/30W/15W/7.5W/0 & Low impedance ope 100V Distortion	Connectors Safety agency ratings (pending	3 sets of horizontal positions 19/22/28mm 0.75/0.87/1.1" Removable locking connector with screw
Rated maximum SPL 112dB (average) 118dB (peak) With THP60 110 (average) Power handling	Connectors Safety agency ratings (pending	Removable locking connector with screw
With THP60 110 (average) Power handling Average 90W Programme 180W Peak 360W Recommended amplifier power 180W @ 8 Ohms Nominal impedance 8 Ohms Transformer taps (via front rorary switch) 70V 60W/30W/15W/7.5W/0 & Low impedance ope 100V 60W/30W/15W/OFF & Low impedance ope Distortion	Safety agency ratings (pending	~
Power handling 90W Average 90W Programme 180W Peak 360W Recommended amplifier power 180W @ 8 Ohms Nominal impedance 8 Ohms Transformer taps (via front rorary switch) 70V 70V 60W/30W/15W/7.5W/C & Low impedance ope 100V for the second seco		g) UL-1480, UL-2043, CE
Programme 180W Peak 360W Recommended amplifier power 180W @ 8 Ohms Nominal impedance 8 Ohms Transformer taps (via front rorary switch) 70V 60W/30W/15W/7.5W/0 & Low impedance ope 100V 60W/30W/15W/OFF & Low impedance ope	BM hole cutout diameter	295mm (11.61")
Recommended amplifier power 180W @ 8 Ohms Nominal impedance 8 Ohms Transformer taps (via front rorary switch) 60W/30W/15W/7.5W/0 70V 60W/30W/15W/7.5W/0 8 Low impedance ope 60W/30W/15W/0FF 8 Low impedance ope 80W/30W/15W/0FF 9 Low impedance ope 80W/30W/15W/0FF	PI hole cutout diameter	295mm (11.61")
Nominal impedance 8 Ohms Transformer taps (via front rorary switch) 60W/30W/15W/7.5W/0 70V 60W/30W/15W/0FF 100V 60W/30W/15W/0FF & Low impedance ope Distortion	Dimensions	
Transformer taps (via front rorary switch) 60W/30W/15W/7.5W/0 70V & Low impedance ope 100V 60W/30W/15W/0FF & Low impedance ope 60W/30W/15W/0FF Distortion V	Bezel diameter	325mm (12.80")
100V 60W/30W/15W/OFF & Low impedance ope	Front of ceiling to FF rear of back can (BM)	310.5mm (12.22")
Distortion	Front of ceiling to ration top of safety loop (BM)	327.8mm (12.90")
10% full power (8.49V) 2nd Harmonic 3rd H 250Hz 0.65% 0.39	Back of ceiling surface to armonic rear of back can (PI)	151.2mm (5.95")
1kHz 1.36% 0.29° 10kHz 1% 0.33°	b Back of ceiling surface to 6 top of safety loop (PI)	168.5mm (6.63")
1% full power (2.68V) 2nd Harmonic 3rd H 250Hz 0.20% 0.43% 1kHz 0.49% 0.28%	armonic Front of ceiling to rear of bass ports (no back can) PI	123.7mm (4.87")
10kHz 0.42% 0.03%	6 Net Weight (ea)	6 21/2
Crossover 2kHz - 2nd order LF, 2nd order order HF (with dynamic HF prote	CMS801 PI CMS801 PI PI back can	6.5kg 3.0kg 4.3kg
Transducers	Shipping Weight CMS801BM (pair) CMS801PI (pair)	19.0kg
Low frequency 200mm (8.00") Dual Con	zentric™ PI back can (single)	5.7kg
constant directivity driver fibre paper pulp cone	VITN MUITI	C Ring, tile bridge, paint mask, cutout template, orille
High frequency 25mm (1.00") titanium with neodymium magne	dome	Plaster (Mud) Ring, line transformer for Pl

 $^{\scriptscriptstyle (2)}$ Unweighted pink noise input, measured at 1m on axis.

(3) Long term power handling capacity as defined in EIA - 426B test

10.2 TECHNICAL SPECIFICATIONS:

System		CMS801 sub	Transducer
Frequency response (-3d	B) ⁽¹⁾	58Hz - 160Hz	
Frequency range (-10dB)	(1)	42Hz - 300Hz	Physical
System sensitivity (1W @	(1m) (2)	92dB (1W = 2.45V for 6 Ohms)	Enclosure Back can
Crossover		Integral 2nd order passive, 160 Hz	Baffle Grille
Rated maximum SPL (2)		112dB (average)	Safety features
With THP60		110dB (average)	Clamping design
Power handling (3) Average		100W	Back can options Blind Mount (BM) Pre Install (PI)
Programme Peak		200W 400W	Cable entry options
Recommended amplifier	power	200W @ 6 Ohms	Conduit knockouts
Nominal Impedance		6 Ohms	Connectors
Transformer taps			Safety agency ratir
70V	60W/3	80W / 15W / 7.5W / OFF	BM hole cutout dia
100V	& Low I 60W / 3	Impedance operation 30W / 15W / OFF	PI hole cutout dian
	& Low I	Impedance operation	Dimensions Bezel diameter
Distortion 10% Full Power (7.75V)	2nd Harmonic	3rd Harmonic	Front of ceiling to rear of back can (BM
100Hz	0.38%	0.49%	Front of ceiling to top of safety loop (B
1% Full Power (2.45V) 70Hz	2nd Harmonic 0.91%	3rd Harmonic 1.28%	Back of ceiling surfa Rear of backcan (Pl
100Hz	0.04%	0.44%	Back of ceiling surfa top of safety loop (P
N /			Front of ceiling to re-

Notes

⁽¹⁾ Average over stated Bandwidth. Measured in an IEC baffle in an Anechoic Chamber ⁽²⁾ Unweighted pink noise input, measured in an IEC baffle in an Anechoic Chamber. If the loudspeaker is placed in the ceiling near a corner ($\pi/_2$) an increase of 6dB in sensitivity and maximum SPL can be realised. $^{\scriptscriptstyle (3)}\text{Long}$ term power handling capacity as defined in EIA - 426B test

A full range of measurements, performance data, and Ease™ Data can be downloaded from www.tannov.com

Tannoy operates a policy of continuous research and development. The introduction of new materials or manufacturing methods will always equal or exceed the published specifications, which Tannoy reserves the right to alter without prior notice. Please verify the latest specifications when dealing with critical applications

Ordering information

PART NUMBER	MODEL NAME	BAFFLE / GRILLE COLOUR	PACKED QUANTITY	PACKED WEIGHT kg (lbs)	
8001 4730	CMS801 SUB BM	WHITE	2	19.0 (41.89)	
8001 4740	CMS801 SUB PI	WHITE	2	11.5 (23.35)	

	multi fibre paper pulp cone
Physical	
Enclosure Back can Baffle Grille	Zinc plated steel Reflex loaded UL 94V-0 rated ABS Steel, with weather resistant coating
Safety features	Safety ring located at rear of enclosure for load bearing safety bond
Clamping design	Security toggle clamp
Back can options Blind Mount (BM) Pre Install (PI)	Complete with fixed back can Separate back can for Pre Installation
Cable entry options	Cable clamp & squeeze connector for conduit up to 22mm
Conduit knockouts	3 Sets of horizontal positions 19 / 22 / 28mm (0.75 / 0.87 / 1.1")
Connectors	Removable locking connector with screw terminals with "loop through" facility
Safety agency ratings (pending)	UL-1480, UL-2043, CE
BM hole cutout diameter	295mm (11.61")
PI hole cutout diameter	295mm (11.61")
Dimensions Bezel diameter	325mm (12.80")
Front of ceiling to rear of back can (BM)	310.5mm (12.22")
Front of ceiling to top of safety loop (BM)	327.8mm (12.90")
Back of ceiling surface to Rear of backcan (PI)	151.2mm (5.95")
Back of ceiling surface to top of safety loop (PI)	168.5mm (6.63")
Front of ceiling to rear of bass ports (no back can) (PI)	123.7mm (4.87")
Net weight (ea) CMS801 SUB BM CMS801 SUB PI PI Back can	6.3kg (13.89lbs) 3.2kg (7.05lbs) 4.0kg (8.8lbs)
Included accessories	C Ring, tile bridge, paint mask, cutout template, grille
Optional accessories	Plaster (Mud) Ring

4 000 (0.000) 1 11

11. PAINTING

If desired, the grille and baffle panel may be painted to match the surrounding décor.

Painting the baffle:

- Carefully mask off the driver assembly using the paint-mask provided to ensure that the paint does not come into 0 contact with the cone and roll surround.
- ൭ Apply several thin coats of paint - this will provide a better finish than one overly thick coat.

Painting the grille:

- 6 Carefully remove the acoustically transparent foam from the reverse side of the grille.
- Paint the grille and then replace the foam several thin coats of paint will provide a better finish than one 0 overly thick coat.
- 0 Re-bond the foam to the grille over the entire area using a light spray-adhesive to avoid audible resonances.

12. WARRANTY

No maintenance of the CMS loudspeaker is necessary.

All Tannoy professional loudspeaker products are covered by a 5 year warranty from the date of manufacture subject to the absence of misuse, overload or accidental damage. Claims will not be considered if the serial number has been altered or removed. Work under warranty should only be carried out by a Tannoy Professional dealer or service agent. This warranty in no way affects your statutory rights. For further information please contact your dealer or distributor in your country. If you cannot locate your distributor please contact Customer Services, Tannoy Ltd at the address given below.

Cust	omer Services	
Tanr	noy Ltd.	
Rose	ehall Industrial Esta	ate
Coat	tbridge	
Strat	thclyde	
ML5	4TF	
Scot	land	
Tel·	01236 420199	(N

(National) Tel: 01236 420199 +44 1236 420199 (International) Fax: 01236 428230 (National) +44 1236 428230 (International) E-mail: enquiries@tannoy.com

DO NOT SHIP ANY PRODUCT TO TANNOY WITHOUT PREVIOUS AUTHORISATION

Our policy commits us to incorporating improvements to our products through continuous research and development. Please confirm current specifications for critical applications with your supplier.

13. DECLARATION OF CONFORMITY:

CE

The following apparatus is manufactured in China for Tannoy Ltd of Rosehall Industrial Estate, Coatbridge, Scotland, ML5 4TF and conform(s) to the protection requirements of the European Electromagnetic Compatibility Standards and Directives relevant to Domestic Electrical Equipment. The apparatus is designed and constructed such that electromagnetic disturbances generated do not exceed levels allowing radio and telecommunications equipment and other apparatus to operate as intended, and, the apparatus has an adequate level of intrinsic immunity to electromagnetic disturbance to enable operation as specified and intended.

Details of the Apparatus:	Tannoy Contractor Loudspeaker
Model Numbers:	CMS801 DC BM CMS801 DC PI CMS801 sub BM CMS801 sub PI CMS801 PI back-can
Applicable Standards:	EN 50103-1 Emission EN 50103-1 Immunity
Electrical Safety:	EN 60065

Signed:

Position: Engineering Director - Professional Products

Tannoy Professional

Date: 26/05/2007

For Tannoy Ltd

NOTES

NOTES

CMS

NOTES