

DDS 5900 Digital Discussion System Specifications <small>(Note: All specifications are subject to change.)</small>	
DDS 5900 System	DC 5980P Discussion Unit
SYSTEM AUDIO PERFORMANCE	DIGITAL SECTION
Audio quality	24 bit audio @ 32 kHz sampling
Audio frequency response	65 Hz – 16 kHz (-3 dB)
Total harmonic distortion at 1 kHz	< 0.1%
Dynamic range	> 80 dB
Weighted signal-to-noise ratio	> 85 dB(A)
CABLING AND SYSTEM LIMITS	GENERAL
Cable type (min. specification)	Cat5e, AWG 24, screened
Maximum cable length in one chain	120 m
SYSTEM ENVIRONMENTAL CONDITIONS	Power requirement
Working condition	24 – 48 V DC
TEMPERATURE RANGE	Power consumption (Power supplied from CU 5905 / EX 6010 / PS 6000)
To guarantee specified performance	1W to 3W
Storage temperature	-20 ° C – 60 ° C
Maximum relative humidity	< 80%
	Weight
	500 g
	Dimensions (W x H x D)
	128 x 71 x 146 mm
	CONNECTORS
	DCS-LAN loop through
	2 pieces RJ45
	Headphone
	3.5 mm Stereo Jack plug
	XLR for GM 65xx or GM 59xx
	XLR3 female
CU 5905 Central Unit	DC 5900 F Flush Mount
ANALOG SECTION	ELECTRICAL
Audio output signal type	Electronically balanced
Nominal output level	0 dBm at nominal input
Max. output level	4.9 V RMS ~ +16 dBm
Audio input signal type	Electronically balanced
Nominal input level (In 1 is switchable)	0 dBm or -10 dBm
Max. input level	+15 dBm (4.5 V RMS)
Analog Audio in	impedance 50 – 100 kΩ
CONNECTORS	CONNECTORS
Chain – Discussion units (DCS-LAN)	2 x RJ45
MAXIMUM TOTAL NUMBER OF UNITS TO BE CONNECTED TO BOTH OUTPUTS ON A CU 5905:	DCS-LAN
DC 5980P Discussion Units	Up to 60 pieces
Audio output	4 units XLR3 male connectors
Audio input	2 units XLR3 female connector
LAN (TCP/IP)	1 RJ45
EEM	1 contact closure input
GENERAL	Headphone
Power consumption	Max. 150W/48V
Supply voltage for DC 5980 units	125 W / 48 V
Weight	2.8 kg
Dimensions (W x H x D)	427 (483) x 44.4 x 186 mm
SYSTEM PERFORMANCE	MECHANICAL
Max. number of discussion units	250
Max. number of interpreter units	32
Max. number of languages	2
Max number of open microphones	8
CU 5900 External Power Supply	GM 5923/24 Gooseneck Microphones
Delivered power	Max. 150W
Input current	Max. 4A@115V AC or max.2A@230V
In-rush current	Max. 40A@115V or max. 20A@230V
Standby consumption	< 0.5 W
Main voltage	100 ~ 240 V, 50 - 60 Hz
Supply voltage for CU 5905	48V/3A
Efficiency	Typical 87%
Weight	935 g
Dimensions (W x H x D)	180 x 52 x 99 mm
	Transducer type
	Condenser
	Polar pattern
	Cardioid
	Frequency response
	30 Hz - 18 kHz
	Sensitivity
	-52 +/- 3dB (0 dB = 1 V/1 Pa, 1 kHz)
	Maximum input sound level
	110 dB SPL, 1 kHz at 3% THD
	Signal-to-noise ratio
	>60 dBA
	Front/back ratio
	>25 dB (1 kHz)
	Dimension (GM 5923)
	400 mm
	Dimension (GM 5924)
	500 mm
	Microphone connector
	XLR3 male

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DDS 5900
Digital Discussion System

ELEGANT, SIMPLE,
INTUITIVE.



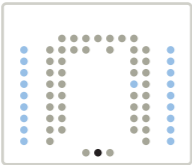
DDS 5900 Digital Discussion System

ELEGANT, SIMPLE, INTUITIVE.

Combining high intelligibility with web-based control and configuration, the DDS 5900 Digital Discussion System is aimed at smaller discussion groups and conferencing situations. Offering plug-and-play simplicity as well as a variety of technical features, the cost-effective DDS 5900 is the perfect choice for conferencing purposes in local government offices and smaller boardrooms.

The DDS 5900 system has just two basic elements: the desktop discussion unit, as used by participants in the discussion, and a rack mountable central 'brain', which can power up to 60 conference units and control up to 250.

Easy-to-use web browser-based control software allows the configuration of the main system parameters for simple, intuitive operation, including the main system volume, the maximum number of conference units, and the optional assignment of names to particular conference microphones. The browser software also displays the conference settings and microphone assignments graphically. Various operation modes – FIFO (first in, first out), VOX (voice activation), auto and manual – provide additional flexibility, and signals may be encrypted if required.



Simplicity for all uses: DDS 5900 assures easy control for the president, delegates, and the interpreter.

The components of the DDS 5900 discussion system are quickly and simply connected in series via standard CAT5e cables. A TCP/IP connection allows for Ethernet connection for external control.

Discussion Unit DC 5980P can be designated as Chairman, Delegate or Interpreter, and up to two interpreted languages may be carried on separate channels through the digital conference bus, each of which may be individually monitored via a headphone socket. Each unit can therefore be tailored to the individual requirements of a given conferencing situation without fuss.

DDS 5900 Digital Discussion System Components



WEB BROWSER - MICROPHONE CONTROL

- Microphone control on/off (speakers list, request list, last speakers list)
- System mode (select operation mode, mic parameters, loudspeaker control)

WEB BROWSER – SYSTEM SET-UP

- CU configuration
- Delegate setup
- Seat assignment
- Name assignment to the seats
- Input/output control

CU 5905 CENTRAL UNIT

- Fully digital technology
- Powers up to 60 conference units, controls 250 conference units
- Selectable operation modes (Auto, FiFo, VOX and manual)
- TCP/IP control for external control
- Encrypted sound
- 2 interpretation channels
- Analog emergency input
- 4 group outputs
- Cat5e (FTP and/or STP) cabling



DC 5980 P DISCUSSION UNIT

- Compact attractive tabletop design
- Soft touch button technology
- Configurable: chairman, delegate, interpreter
- Exchangeable button overlay
- Lockable xlr socket for the gooseneck
- High quality loudspeaker
- Stereo headphone socket
- 2 DCS LAN connectors
- 2 Interpreter channels

GM 5923/24 GOOSENECK MICROPHONE

- 50 cm gooseneck microphone
- 40 cm gooseneck microphone

DC 5900F Flush Mount Components



DC 5900 F BASE UNIT

- Small form factor base unit
- OUT-OF-THE-BOX setup and operation
- Works with both GM and MX microphones
- Easy to install



FP 5921 F FRONT PLATE

- Front plate with SPEAK functionality
- Once the appropriate overlay is affixed to the discussion unit, the required functionality will be programmed/enabled automatically



FP 5981 F FRONT PLATE

- Front plate with SPEAK, HEADPHONE VOLUME CONTROL and CHANNEL SELECTION functionality
- Once the appropriate overlay is affixed to the discussion unit, the required functionality will be programmed/enabled automatically

BUTTON OVERLAYS

Overlays need to be affixed to the front plates in order to enable specific functionalities. For front plate FP 5921 F there are 4 different overlay designs available; for front plate FP 5981 F there are 3 different overlay designs available.



FP 5921 F OL1

Delegate with SPEAK and MUTE functionality



FP 5921 F OL2

Delegate with SPEAK functionality



FP 5921 F OL3

Chairman with SPEAK and DELEGATES OFF functionality



FP 5921 F OL4

Delegate without any buttons (remote activation)



FP 5981 F OL5

Delegate with SPEAK, MUTE, HEADPHONE VOLUME CONTROL and CHANNEL SELECTION functionality



FP 5981 F OL6

Delegate with SPEAK, HEADPHONE VOLUME CONTROL and CHANNEL SELECTION functionality



FP 5981 F OL7

Chairman with SPEAK, DELEGATES OFF, HEADPHONE VOLUME CONTROL and CHANNEL SELECTION functionality

MICROPHONES & SPEAKERS



MX405/410/415 GOOSENECK MICROPHONE

- Interchangeable cardioid, supercardioid and omnidirectional condenser cartridges
- 'R' versions with the light ring at the top are recommended
- Available cartridges R183 (omnidirectional), R184 (supercardioid) and R185 (cardioid)



LS 5900 F SPEAKER MODULE

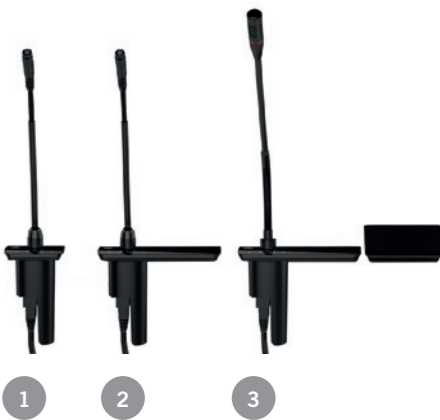
Loudspeaker module (optional) to connect to DC 5900 F base unit



AC 5901 ADAPTOR

- AC 5901 is needed to connect Shure Microflex microphones MX 405, MX410 or MX415 to DC 5900 F flush mount unit

CONFIGURATION EXAMPLES



1 FP 5921 DELEGATE WITH MX MICROPHONE

- DC 5900 F Base Unit
- FP 5921 F Front Plate
- FP 5921 OL1 Overlay
- AC 5901 Adapter
- MX405 Microphone and R185 cartridge

2 FP 5981 CHAIRMAN WITH MX MICROPHONE

- DC 5900 F Base Unit
- FP 5981 F Front Plate
- FP 5981 OL7 Overlay
- AC 5901 Adapter
- MX405 Microphone and R185 cartridge

3 FP 5981 DELEGATE WITH GM MICROPHONE

- DC 5900 F Base Unit
- FP 5981 F Front Plate
- FP 5981 OL5 Overlay
- GM 5923 Microphone
- LS 5900 F Speaker