IN PROCESS
EN54 16

PENDING
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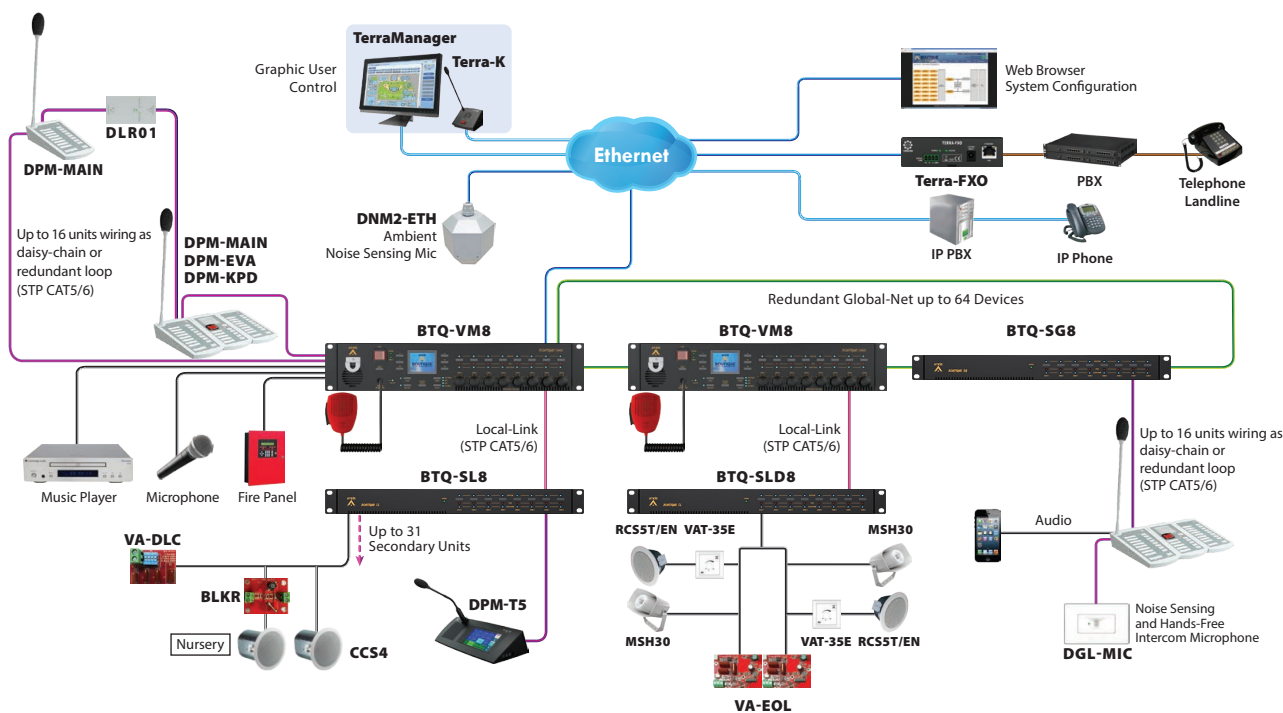UL STD 2572
ETL LISTED US
Mass Notification Systems

DPM

DPM-MAIN - Digital Redundant Loop Paging Microphone-Main
DPM-EVA - EVAC Unit with Speaker and Extra Buttons
DPM-KPD - Additional 8+1 Microphone Keypad

The DPM consists of three units: DPM-MAIN, DPM-EVA and DPM-KPD. The DPM-MAIN is the digital redundant loop paging microphone which provides 8 programmable buttons and a talk button. The DPM-KPD is a additional 8+1 microphone keypad used to expand keys of the DPM-MAIN, and the DPM-EVA is a EVAC unit with monitoring speaker and extra 5 programmable buttons.

Up to 8 paging consoles can be connected to BTQ-SL8, and 16 on BTQ-VM4/VM8/SG8; the wiring can be daisy-chain or in redundant loop. Each DPM-MAIN can attach one DPM-EVA, and up to 30 DPM-KPD linked by the flat cable. The maximum communication cable length between the controller/secondary units and paging consoles is 250M (820 ft.) via STP CAT5/6 cable with shielded RJ45 connector. If the control signal of DPM is not strong enough, it can connect to the DLR01 digital loop repeater for extending the distance 250m longer. And if the power is not enough, connect a 24VDC local power on DLR01.

The programmable buttons can set to act as single or group zone selection, event triggering, recording, message playing button etc.. All the settings are configured via web browser. The Talk button can be programmed for PTT (press-to-talk) or latching mode as well. The DPM is also an eco-friendly product with extremely low power consumption (<1W) during standby mode.

APPLICATION EXAMPLE

DPM

DPM-MAIN: Digital Redundant Loop Paging Microphone-Main
DPM-EVA: EVAC Unit with Speaker and Extra Buttons
DPM-KPD: Additional 8+1 Microphone Keypad

FEATURES

DPM-MAIN

- Up to 8 paging consoles can be connected to BTQ-SL8, and 16 on BTQ-VM4/VM8/SG8; the wiring can be daisy-chain or in redundant loop
- Microphone capsule monitoring
- AGC (Automatic gain control) function

CONTROLS AND INDICATORS

- DPM-MAIN
  - Talk button (press-to-talk or latching mode)
  - 8 programmable buttons with individual status LED
  - Gooseneck paging microphone
  - Status LED (power, busy hold, talk, all-call and release all-call)
  - All/release button (select/deselect all zones)
  - Speaker & mic volume control
- DPM-KPD
  - 8 programmable buttons with individual status LED
  - Status LED (power, busy hold, talk, all-call and release all-call)
  - All/release button
- DPM-EVA
  - 5 programmable buttons with individual status LED
  - Monitored loudspeaker
  - Status LED (busy hold and fault)
  - EVAC button and reset button

INTERCONNECTIONS

- DPM-MAIN
  - 2 remote ports (shielded RJ45 connector, STP CAT5/6)
  - 2 x 3.5 mm mini-jack for earphone and microphone
- DPM-MAIN/DPM-EVA/DPM-KPD
  - Flat cable for the linking of DPM-MAIN/DPM-EVA/DPM-KPD

CERTIFICATIONS AND APPROVALS

Europe	Voice Alarm	EN 54-16 (In process)
Europe	CE/EMI	EN 55032: 2015 AC: 2016 Class A
Europe	CE/EMC	EN 55020:2007/A12:2016 IEC 61000-4-2 (In process)
Europe	CE/LVD	EN 60065:2014/A11:2017 (In process)
USA	Mass Notification Systems	UL 2572 (Pending)
USA	Safety	UL 60065 (Pending)

ELECTRICAL

- DC power input: 21 VDC ~ 29 VDC
- Power consumption: full power/standby mode
  - DPM-MAIN: 5W/1W
  - DPM-EVA: 0.5W/0.3W
  - DPM-KPD: 1W/0.5W

* If the control signal of DPM is not strong enough, it needs to connect to DLR01 digital loop repeater for extending the distance 250m longer. And if the power is not enough, connect a 24VDC local power on DLR01.

AUDIO CHARACTERISTICS (GENERAL)

- A/D-D/A bit resolution: 24 bit
- Sampling rate: 48 kHz
- Frequency response: 20 Hz ~ 20 kHz (±1 dB) @ 0 dBu
- SNR: > 85 dB
- THD+N: < 0.2 % @ 26 dB gain, -26 dBu (1 kHz) in
- Max. speaker SPL: 90 dBA @ 3m
- Max. mic SPL: 105 dBA @ 3m
- Capsule type: Electret condenser
- Capsule Sensitivity: -15 dBu/Pa @1 kHz
- Capsule directivity: Uni-directional
- Polar pattern: Cardioid

AUDIO CHARACTERISTICS (HEADSET-JACK)

- Maximum input level: -3 dBu
- Maximum output level: 2.5 dBu
- Input gain (fixed): 3 dB
- Input impedance: 2k ohm
- Output impedance: 25 ohm
- Delivering power: 150 mW

NETWORK

- Max. remotes per BTQ-SL8: 8
- Max. remotes per BTQ-VM4/VM8/SG8: 16
- Max. distance between remote units: 250m (shielded RJ45 connector, STP CAT5/6)

MECHANICAL

- Dimensions (W x H x D)
  - DPM-MAIN base: 108 x 46 x 200 mm (4.3 x 1.8 x 7.9 inch)
  - DPM-MAIN with microphone: 108 x 319 x 200 mm (4.3 x 12.6 x 7.9 inch)
  - DPM-KPD/DPM-EVA: 96 x 46 x 200 mm (3.8 x 1.8 x 7.9 inch)
- Weight: DPM-MAIN/DPM-EVA/DPM-KPD: 0.5 kg (1.1 lbs)
- Colour: RAL 7035

ENVIRONMENTAL

- Operating temperature: -5 ºC ~ +55 ºC (+23 ºF ~ +131 ºF)
- Storage temperature: -40 ºC ~ +70 ºC (-40 ºF ~ +158 ºF)
- Relative humidity: 20% to 95%
- Air pressure: 600 to 1100 hPa
- Heat dissipation
  - DPM-MAIN: 0.87 BTU/hr
  - DPM-EVA: 0.76 BTU/hr
  - DPM-KPD: 0.02 BTU/hr

ORDERING INFORMATION

- DPM-MAIN: Digital Redundant Loop Paging Microphone-Main
- DPM-KPD: Additional 8+1 Microphone Keypad
- DPM-EVA: EVAC Unit with Speaker and Extra Buttons