

# Explosion-proof Industrial Speaker



# Product List



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## Application

- Factory Broadcast
- Oil Platform Broadcast
- Public Emergency Broadcast
- Vehicle Dispatch Broadcast
- Dam Release Notification
- Station Broadcast
- Tsunami Warning



# Model TW810

# Explosion-proof Standard Speaker



- ▶ Applied in Paging Intercom System
- ▶ Built-in driver: 16Ω , 30W
- ▶ ABS Type Approved: 17-SQ1594490-PDA
- ▶ CR Type Approved: 913-17-002
- ▶ GRP speaker, impact-resistant, corrosion-resistant, IP66 rated
- ▶ Stainless steel mounting bracket and cover screws
- ▶ Cable entry: 1/2" NPT x 2
- ▶ CNS Certification: Ex d IIB+H2 T6 Gb X / Ex tD A21 IP65 T85°C X
- ▶ CQST Certification: Ex d IIC T6 Gb / Ex tD A21 IP66 T80°C
- ▶ IECEx & ATEX Certification: Ex db IIC T6 or T5 Gb / Ex tb IIIC T80°C Db IP66
- ▶ Patent in Taiwan: M460474; Patent in China: ZL 2013 2 0256170.7

# THT-EX

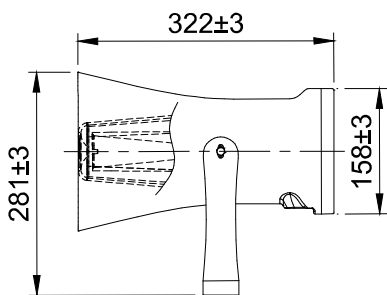
# Model TW810

# Explosion-proof Standard Speaker

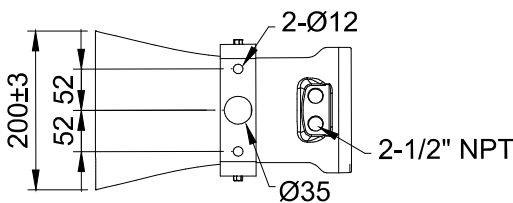
## ► Specifications

Input Impedance	16Ω	
SPL(1w/1m)	108 dB	
Appearance & Materials	Enclosure	Glass Reinforced Plastic (GRP)
	Bracket	Stainless Steel
	Screws	Stainless Steel, Anti-loose Design for Cover
Environment	Certification	CNS: Ex d IIB+H2 T6 Gb X / Ex tD A21 IP65 T85°C X CQST: Ex d IIC T6 Gb / Ex tD A21 IP66 T80°C IECEX & ATEX: Ex db IIC T6 or T5 Gb / Ex tb IIIC T80°C Db IP66
	Temperature	-20°C ≤ Ta ≤ +50°C or -20°C ≤ Ta ≤ +60°C
	Dimensions (Shipping)	240L x 245W x 405H (mm)
	Weight (Shipping)	4.8 kg (10.6 lb)

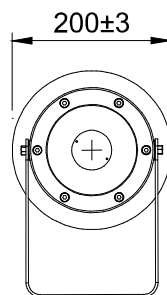
## ► Dimensions (Unit: mm)



Side View



Bottom View



Back View

Model  
**TW81A**  
**TW81A-A**

# Explosion-proof Self-amplified Speaker



- ▶ Applied in Paging Intercom System
- ▶ Built-in power amplifier
- ▶ TW81A: Voltage 24 VDC
- ▶ TW81A-A: Available for 110~220VAC
- ▶ GRP speaker, impact-resistant, corrosion-resistant, IP66 rated
- ▶ Stainless steel mounting bracket and cover screws
- ▶ Cable entry: 1/2" NPT x 2
- ▶ CNS Certification: Ex d IIB+H2 T6 Gb X / Ex tD A21 IP65 T85°C X
- ▶ CQST Certification: Ex d IIC T6 Gb / Ex tD A21 IP66 T80°C
- ▶ IECEx & ATEX Certification: Ex db IIC T6 or T5 Gb / Ex tb IIIC T80°C Db IP66
- ▶ Patent in Taiwan: M460474; Patent in China: ZL 2013 2 0256170.7

THT-EX

# Model TW81A TW81A-A

# Explosion-proof Self-amplified Speaker

## ► Specifications

Model		TW81A	TW81A-A
Power Requirements	Voltage	24 VDC	110 / 220 VAC
	Rating	Zero singal: 1.44W Max singal: 15W	110V Zero singal: 6VA / 3W Max singal: 35VA / 19W  220V Zero singal: 11VA / 3.5W Max singal: 40VA / 20W
Speaker Amplifier	Output	BTL Class AB, 15W / 16Ω	
	Frequency	250 ~ 10,000 Hz, +/- 1.5dB reference to 1K Hz	
	Distortion	1.0% Max. THD @ 1,000 Hz 9W	
	Input Impedance	50,000Ω, nominal	
	Output Impedance	16Ω	
	Paging Input	33Ω load	
SPL (1w/1m)	108 dB		
Appearance & Materials	Enclosure	Glass Reinforced Plastic (GRP)	
	Bracket	Stainless Steel	
	Screws	Stainless Steel, Anti-loose Design for Cover	
Environment	Certification	CNS: Ex d IIB+H2 T6 Gb X / Ex tD A21 IP65 T85°C X CQST: Ex d IIC T6 Gb / Ex tD A21 IP66 T80°C IECEX & ATEX: Ex db IIC T6 or T5 Gb / Ex tb IIIC T80°C Db IP66	
	Temperature	-20°C ≤ Ta ≤ +50°C or -20°C ≤ Ta ≤ +60°C	
	Dimensions (Shipping)	240L x 245W x 405H (mm)	
	Weight (Shipping)	5.0 kg (11.0 lb)	5.5 kg (12.1 lb)

## ► Dimensions (Unit: mm)

(Please refer to page 03.)



# Model TW81D TW81D-A

## Explosion-proof Intelligent Siren Sounder



- ▶ GRP speaker, impact-resistant, corrosion-resistant, IP66 rated
- ▶ Stainless steel mounting bracket and cover screws
- ▶ 15W power consumption
- ▶ Voice recording via microphone
- ▶ Voice burning via computer to edit alarm contents
- ▶ Voice playing by activating alarm via power or dry contact
- ▶ Digital addressable design for remote alarm activation and failure detection
- ▶ TW81D: Voltage 24VDC
- ▶ TW81D-A: Available for 110~220VAC
- ▶ Cable entry: 1/2" NPT x 2
- ▶ CNS Certification: Ex d IIB+H2 T6 Gb X / Ex tD A21 IP65 T85°C X
- ▶ CQST Certification: Ex d IIC T6 Gb / Ex tD A21 IP66 T80°C
- ▶ IECEx & ATEX Certification: Ex db IIC T6 or T5 Gb / Ex tb IIIC T80°C Db IP66
- ▶ Patent in Taiwan: M460474; Patent in China: ZL 2013 2 0256170.7

THT-EX

# Model TW81D TW81D-A

## Explosion-proof Intelligent Siren Sounder

### Specifications

Model		TW81D	TW81D-A
Power Requirements	Voltage	24 VDC	110 / 220 VAC
	Rating	Zero singal: 1.44W Max singal: 15W	110V Zero singal: 6VA / 3W Max singal: 35VA / 19W  220V Zero singal: 11VA / 3.5W Max singal: 40VA / 20W
Speaker Amplifier	Output	BTL Class AB, 15W / 16Ω	
	Frequency	250 ~ 10,000 Hz, +/- 1.5dB reference to 1K Hz	
	Distortion	1.0% Max. THD @ 1,000 Hz 9W	
	Input Impedance	50,000Ω, nominal	
	Output Impedance	16Ω	
	Audio Input	Audio Signal	
SPL (1w/1m)	110 dB		
Appearance & Materials	Enclosure	Glass Reinforced Plastic (GRP)	
	Bracket	Stainless Steel	
	Screws	Stainless Steel, Anti-loose Design for Cover	
Environment	Certification	CNS: Ex d IIB+H2 T6 Gb X / Ex tD A21 IP65 T85°C X CQST: Ex d IIC T6 Gb / Ex tD A21 IP66 T80°C IECEX & ATEX: Ex db IIC T6 or T5 Gb / Ex tb IIIC T80°C Db IP66	
	Temperature	-20°C ≤ Ta ≤ +50°C or -20°C ≤ Ta ≤ +60°C	
	Dimensions (Shipping)	240L x 245W x 405H (mm)	
	Weight (Shipping)	5.3 kg (11.7 lb)	5.5 kg (12.1 lb)

### Dimensions (Unit: mm)

(Please refer to page 03.)



Model  
**TW81R**  
**TW81R-A**

# Explosion-proof Siren Sounder



- ▶ GRP speaker, impact-resistant, corrosion-resistant, IP66 rated
- ▶ Stainless steel mounting bracket and cover screws
- ▶ 15W power consumption
- ▶ Voice recording via microphone
- ▶ Voice burning via computer to edit alarm contents
- ▶ Voice playing by activating alarm via power or dry contact
- ▶ TW81R: Voltage 24VDC
- ▶ TW81R-A: Available for 110~220VAC
- ▶ Cable entry: 1/2" NPT x 2
- ▶ CNS Certification: Ex d IIB+H2 T6 Gb X / Ex tD A21 IP65 T85°C X
- ▶ CQST Certification: Ex d IIC T6 Gb / Ex tD A21 IP66 T80°C
- ▶ IECEx & ATEX Certification: Ex db IIC T6 or T5 Gb / Ex tb IIIC T80°C Db IP66
- ▶ Patent in Taiwan: M460474; Patent in China: ZL 2013 2 0256170.7

THT-EX

# Model TW81R TW81R-A

# Explosion-proof Siren Sounder

## ► Specifications

Model		TW81R	TW81R-A
Power Requirements	Voltage	24 VDC	110 / 220 VAC
	Rating	Zero singal: 1.44W Max singal: 15W	110V Zero singal: 6VA / 3W Max singal: 35VA / 19W  220V Zero singal: 11VA / 3.5W Max singal: 40VA / 20W
Speaker Amplifier	Output	BTL Class AB, 15W / 16Ω	
	Frequency	250 ~ 10,000 Hz, +/- 1.5dB reference to 1K Hz	
	Distortion	1.0% Max. THD @ 1,000 Hz 9W	
	Input Impedance	50,000Ω, nominal	
	Output Impedance	16Ω	
	Audio Input	Audio Signal	
SPL (1w/1m)	110 dB		
Appearance & Materials	Enclosure	Glass Reinforced Plastic (GRP)	
	Bracket	Stainless Steel	
	Screws	Stainless Steel, Anti-loose Design for Cover	
Environment	Certification	CNS: Ex d IIB+H2 T6 Gb X / Ex tD A21 IP65 T85°C X CQST: Ex d IIC T6 Gb / Ex tD A21 IP66 T80°C IECEX & ATEX: Ex db IIC T6 or T5 Gb / Ex tb IIIC T80°C Db IP66	
	Temperature	-20°C ≤ Ta ≤ +50°C or -20°C ≤ Ta ≤ +60°C	
	Dimensions (Shipping)	240L x 245W x 405H (mm)	
	Weight (Shipping)	5.0 kg (11.0 lb)	5.2 kg (11.5 lb)

## ► Dimensions (Unit: mm)

(Please refer to page 03.)

# Model TW81T

# Explosion-proof High-voltage Speaker



- ▶ Applied in Public Address System and Emergency Communications System
- ▶ Sound Pressure Level (L): 100 dB
- ▶ Voltage: 70/100 VAC
- ▶ Power: 7.5W / 15W
- ▶ CFS Approval No.:EP-A104005
- ▶ ABS Type Approved: 17-SQ1594490-PDA
- ▶ CR Type Approved: 913-17-002
- ▶ GRP speaker, impact-resistant, corrosion-resistant, IP66 rated
- ▶ Stainless steel mounting bracket and cover screws
- ▶ Cable entry: 1/2" NPT x 2
- ▶ CNS Certification: Ex d IIB+H2 T6 Gb X / Ex tD A21 IP65 T85°C X
- ▶ CQST Certification: Ex d IIC T6 Gb / Ex tD A21 IP66 T80°C
- ▶ IECEx & ATEX Certification: Ex db IIC T6 or T5 Gb / Ex tb IIIC T80°C Db IP66
- ▶ Patent in Taiwan: M460474; Patent in China: ZL 2013 2 0256170.7

# THT-EX

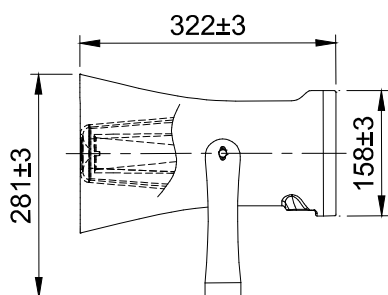
# Model TW81T

# Explosion-proof High-voltage Speaker

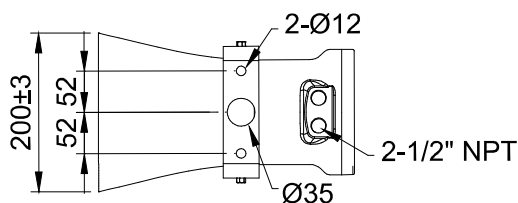
## ► Specifications

Power Requirements	Voltage	70 / 100 VAC
SPL(1w/1m)	100 dB	
Appearance & Materials	Enclosure	Glass Reinforced Plastic (GRP)
	Bracket	Stainless Steel
	Screws	Stainless Steel, Anti-loose Design for Cover
Environment	Certification	CNS: Ex d IIB+H2 T6 Gb X / Ex tD A21 IP65 T85°C X CQST: Ex d IIC T6 Gb / Ex tD A21 IP66 T80°C IECEX & ATEX: Ex db IIC T6 or T5 Gb / Ex tb IIIC T80°C Db IP66
	Temperature	-20°C ≤ Ta ≤ +50°C or -20°C ≤ Ta ≤ +60°C
	Dimensions (Shipping)	240L x 245W x 405H (mm)
	Weight (Shipping)	5.4 kg (11.9 lb)

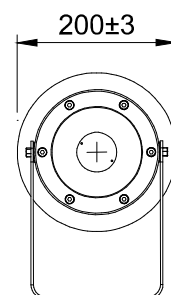
## ► Dimensions (Unit: mm)



Side View



Bottom View



Back View

# Application

## **Eies** Emergency Integrated Communication System



# Application



## Feature of EICS

- 🚨 Emergency Response
- 🚨 Disaster Prevention
- 🚨 Data Reporting
- 🚨 Malfunction Detection
- 🚨 Equipment Drawing in Factory
- 🚨 Best Instant Safety Net

