

SPECIFICATIONS

LS-30 BASE UNIT



Input Power: 15VDC/400mA regulated.

Standby Current: 50mA.

RF : Frequency: 426MHz, 433MHz, 868MHz and 915MHz as requested.

Data Modulation: Narrow-band FM or OOK, depending on RF.

Power: less than 10mW.

Range: about 100m to 350m @open field, 25°C (Depending on sensors).

Receiver Type: super heterodyne.

RF Security Code: 16,777,216 combinations with check sum for each type of sensors.

More than 4 billion combinations in total.

Communication Link: PSTN (Telephone)/ GSM/ Ethernet

Telephone Dialing: Pulse/Tone selectable.

Preset Telephone Number: 10 phone numbers, one pager, 5 GSM/SMS numbers, 2 CMS data links (both with PSTN and GSM numbers).

Voice Recording: 120 seconds in total.

Emergency announcement in 6 segments, 13 seconds for common segment, 4 seconds each for Panic, Burglar, Fire, Medical, Special and Latchkey/ Power segments.

Event Log: max. 512 records.

Display: 3 LEDs, 2x16 LCD panel with blue color backlight.

Sensor Zones: total 288 zones. (Burglar zones x 128, Fire zones x 64, Controller zones x 32, Medical zones x 32, Special sensor zones x 32)

Memory Back-up Time: Min. 3 months after power break.

Battery Back Up Operation Time: about 15-26 hours standby. (depends on back up battery type, only for the operation of the Base Unit)

Password: 14 passwords each with max. 8 digits.

Wire Sensor Inputs: 3 sensor inputs, each can be assigned as panic, burglar, fire, medical or tamper.

Alarm Out: 230V AC /3A rate relay contacts or DC output selectable.

Delay Activation Time: 0- 255 seconds programmable.

Digital Interfaces COM1(RJ9): UART (0-5V, 9600/ 8 bits/no parity/1stop bit)

For RS-232 Adaptor, USB Adaptor, 10M/100M Ethernet Adaptor and Data Communication Module.

Digital Interface COM2(RJ45): (for GSM module and X-10 switch control interface)

GSM module: UART (0-5V, 9600/ 8 bits/no parity/1stop bit).

X-10 control: X-10 protocol for the control of 16 units X-10 switches or Relay Modules.

Remote Display Memory: 30 characters/set, total 10 sets.

Internal Siren: 110dB at 30cm distance.

CMS protocol: Contact ID with 2-way voice.

Clock Accuracy: within 5 seconds daily.

Telephone Line Cut Detection Voltage: 20V+/- 4V. (this function may not be used in some countries.)

Operation Temp.: -10°C ~50°C.

Storage Temp.: -20°C ~55°C.

Humidity: 10-95%RH.

Size: 248x180x52 mm.

Weight: about 950 g

Approvals: CE, FCC, TELEC

Grade: EN50131, Class 2.

LCD display and voice prompt: Available in English, German, French, Spanish, Italian, Swedish, Dutch, Greek, Russian, Turkish, Portuguese, Czech, Polish, Slovenian and Japanese.

LS-20 BASE UNIT



Input Power: 7VDC/850mA power adapter

Standby Current: depending on model

RF: 433MHz, 868MHz or 915MHz, compliant with local regulations

RF Power: less than 10mW.

Range: about 100m to 300m or more @open field, 25°C (Depends on sensors and Hardware version).

Receiver Type: super heterodyne.

RF Security Code: 16,777,216 combinations with check sum for each type of sensors.

More than 4 billion combinations in total.

Communication Link: Ethernet/Wi-Fi or GSM/GPRS as needed.

Event Log: max. 512 records.

Display: 4 LEDs (Away/Home/Disarm/Data).

Sensor Zones: total 288 zones. (Burglar zones x 128, Fire zones x 64, Controller zones x 32,

Medical zones x 32, Special sensor zones x 32)

Memory Back-up Time: Min. 3 months after power break.

Battery Back Up Operation Time: about 4 hours standby. (Depends on back up battery type, only for the operation of the Base Unit with Ethernet Adaptor)

3 Wire Sensor Inputs: Each can be assigned as Panic, Burglar, Fire, Medical, Tamper or Controller.

Alarm Out: 400V/ 100mA load current, Photo MOS FET Relay.

Delay Activation Time: 0- 255 seconds programmable.

Digital Interfaces COM1 (RJ9): UART (0-5V, 9600/ 8 bits/no parity/1stop bit)

Automation Switch control: Control of 10 smart plugs or contact relays

Preset Telephone Number: 5 GSM/SMS numbers, 2 CMS data links (With GSM option).

Voice Recording: 120 seconds in total (With Voice Module).

Emergency announcement in 6 segments, 13 seconds for common segment, 4 seconds each for Panic, Burglar, Fire, Medical, Special and Latchkey/ Power segments.

CMS protocol:

GSM: Contact ID with 2-way voice(With GSM Adaptor and Voice Module).

Internet: Proprietary Scientech Protocol (ST-I, ST-II), CSV and SIA ADM-CID IP Alarm protocol.

Clock Accuracy: within 5 seconds daily.

Operation Temp.: -10°C ~50°C.

Storage Temp.: -20°C ~55°C.

Humidity: 10-95%RH.

Size: 190x120x40 mm.

Models:

LS-20E (Ethernet Adaptor)

LS-20GV (GSM/GPRS with Voice Module)

LS-20EV (Ethernet Adaptor with Voice Module)

LS-20EG (Ethernet Adaptor, GSM/GPRS & Voice Module)

LS-20WG (Wi-Fi, GSM/GPRS & Voice Module)

LS-10/LS-10N Base Unit



Input Power: 7V DC/850mA power adapter

Standby Current: About 280mA

RF: 433MHz, 868MHz or 915MHz, compliant with local regulations

Data Modulation: OOK (On Off Key).

Power: less than 10mW.

Range: about 100m to 300m + @open field, 25°C (Depends on sensor).

Receiver Type: super heterodyne.

RF Security Code: 16,777,216 combinations with check sum for each type of sensors.

Over 4 billion combinations in total.

Communication Link: Ethernet interface

Event Log: Max. 512 records.

Display: 4 LEDs (Away/Home/Disarm/Data).

Sensor Zones: total 288 zones. (Burglar zones x 128, Fire zones x 64, Controller zones x 32,

Medical zones x 32, Special sensor zones x 32)

Memory Back-up: CR 2032 Li battery, back-up time minimum 1 year for a new battery without power.

Back Up Battery Connector: 5V USB power pack (excluding)

Delay Activation Time: 0- 255 seconds programmable.

Digital Interfaces: Micro USB socket (**None for LS-10N**)

Internet Interface: RJ45, or Wi-Fi (Optional).

Automation Switch control: RJ11 6-pin for X-10 switches and XRM-01 Relay Modules. Plus RF wireless power switch.

Internet CMS protocol: Proprietary Scientech Protocol (ST-I, ST-II), CSV and SIA ADM-CID (2007) IP Alarm protocol.

Wire Sensor Input: One input, can be assigned for Panic, Burglar, Fire, Medical, Tamper or Controller usage.

Alarm Out: Open collector transistor output with 5.1Ω in series (max 200mA). For 6V external siren or other alarm device.

Clock Accuracy: within 5 seconds daily. (**None for LS-10N**)

Operation Temp.: -10°C~50°C.

Storage Temp.: -20°C~55°C.

Humidity: 10-95%RH.

Size: 118x78x32 mm.(Main body)

Weight: about 108 g. (Main body)



Supervision: sends heartbeat signal at 60-minute interval. When Tamper or Low Battery condition is detected, it reports automatically.

Power: AAA alkaline battery x 2 pcs.

Current Drain: 5uA @ standby, 20mA @ operation

Estimated Battery Life: 3 years (@ actuated 10 times/day)

Transmitter Size: 20 x 29 x 123.5 mm

Transmitter Weight (w/o battery): about 34g

Door Magnet (Long battery life), TX-3DSN



Supervision: transmitter sends heartbeat signal at 60-minute interval, and reports whenever Tamper or Low Battery condition is detected.

Power Source: 3V (CR123A) Lithium battery.

Current Drain: 5.6uA @ standby, 15mA @ operation

Estimated Battery Life: 5~7 years (@ open and close 20 times/day)

Working temperature: -20 ~+ 50°C

Size: 20 x 29 x 105 mm (Transmitter Only)

Weight (w/o battery): about 28g (Transmitter Only)

Mini Door Magnet, MX-3D



Supervision: Sending heartbeat signal at 60-minute interval (selectable).

When Low Battery condition is detected, it reports automatically.

Power: one 3V CR-2032 lithium battery.

Current Drain: 8uA @ standby, 20mA @ operation

Estimated Battery Life: 1 year (@ actuated 10 times/day)

Operating Temperature: -10-40°C,

Detector Size: 35 x 38 x 10 mm

Detector Weight: about 12g (with battery)

Glass Break Detector, TX-3GS



Supervision: Sends heartbeat signal at 60-minute intervals. When Tamper or Low -Battery condition is detected, it reports automatically.

Power: AAA alkaline battery x 2 pcs.

Current Drain: 3.5uA @ standby, 20mA @ operation.

Estimated Battery Life: 5 years

Transmitter Size: 20 x 29 x 123.5 mm

Transmitter Weight (w/o battery): about 34g

Acoustic Glass Break Detector, GB-A30



ACOUSTIC SENSOR SECTION

Microphone: Omni-directional electret Alarm Duration: 4 seconds

RF immunity: 20 V/m, 1 MHz to 1000 MHz Temperature range: -10° to 50°C (14° to 120°F)

Dimensions: 80 x 108 x 43 mm (3.13 x 4.24 x 1.70 in.).

Housing Material and Color: Flame retardant ABS, white

Weight (with transmitter and batteries) : about 140 g

Recommended Glass Size:

Minimum: 0.3 x 0.6 m (1 x 2') or larger glass thickness

Plate: 2.4 to 6.4 mm (3/32 to 1/4")

Tempered: 3.2 to 6.4 mm (1/8 to 1/4")

Wired: 6.4 mm (1/4")

Laminated: 3.2 to 6.4 mm (1/8" to 1/4")

RF SIGNAL TRANSMITTER SECTION

Supervision: Sends heart beat at 60-minute intervals.

Tamper protection: Sends tamper message when the case is opened.

Battery Check: Sends Low Battery message when detected.

POWER SUPPLY

Power: AAA Alkaline battery x 2 pcs.

Current Drain: 23 μ A standby, 12 mA on alarm (including LED)

Battery Life: About 2 years

Vibration Sensor & Transmitter, TX-3DS-VB



Power Source: two AAA alkaline batteries.
Current Drain: 3.5uA @standby, 20mA @operation.
Protection : Built-in tamper switch for transmitter
Estimated Battery Life: 3~4 years
Size: 20 x 29 x 123.5 mm for transmitter, 22 x 22 x 59 mm for detector
Weight: about 34g for transmitter (w/o battery), 21 g for detector

Mini Vibration Sensor, MX-3D-VB



Power: one 3V CR-2032 Lithium battery
RF signals: Trigger, Battery Low, Heartbeat, Power on Reset (@power on)
Current Drain: 8uA @ standby, 20mA @ RF operation
Estimated Battery Life: 1.5 year (@ actuated 10 times/day, heart beat in every two hours)
Operating Temperature: -10~ 40°C
Detector Size: 35 x 38 x 10 mm
Detector Weight: about 12g (with battery)

Mini Light Sensor, MX-3L



Power: one 3V CR-2032 lithium battery
RF signals: Above TL/Below TL, Battery Low, Heartbeat (@60 min.), Power on Reset (@power on)
Sensor: NaPiCa (Cadmium Free) type
Light Intensity Threshold Level: 100Lux, 500Lux, 2000Lux, 4000Lux. (+/-40%), selectable
Current Drain: 10uA @ standby, 20mA @ RF operation
Estimated Battery Life: 1 year (@ actuated 10 times/day)
Operating Temperature: -10~ 40°C
Size: 35 x 38 x 10 mm
Weight: about 12g (with battery)

Flood Detector, TX-3FS



Supervision: Sends heartbeat signal at 60-minute interval. When Tamper or Low Battery condition is detected, it reports automatically.

Power Source: Two AAA alkaline batteries.

Current Drain: 3.5uA @standby, 20mA @activation

Estimated Battery Life: 5 years

Transmitter Size: 20 x 29 x 123.5 mm

Transmitter Weight (w/o battery): about 34g

Analog & Temperature Two-in-One Sensor, TX-3AS



Supervision: sends temperature/ analog reading at 30-minute interval alternatively.

Power Source: two AAA alkaline batteries.

Working Temperature Range: -20°C to 50°C (over this range the working of the device is not guaranteed)

Reading Update Speed: 30-seconds/ Reading.

Temperature Sensor Operation Range: -40°C/85°C .

Temperature Accuracy: 10°C to 40°C +/- 1°C max.

-40°C to 85°C +/- 3°C max.

Analog Reading: 0-100 for 0~20mA or 0~1.952V (19.52mV/step) +/-1%.

Max. Input Current/Voltage: 100mA or 10V (0-2V input impedance=100KΩ)

Low Battery Detection: 2.6V+/- 0.1V.

Current Drain: 5uA @ standby, 20mA @ RF operation

Estimated Battery Life: Sending 60,000 readings or 3 years (Temperature/Analog readings vary 25 times/day each)

Dimension/weight: 20 x 29 x 123.5 mm, about 34g (w/o battery):

PIR MOTION DETECTOR, PIR-2S



Supervision: sends heartbeat signal at 60-minute interval. When Tamper or Low Battery condition is detected, it reports automatically.

Detector Type: dual element

Coverage Angle: 110°

Effective Distance: max. 12m @ambient temp. 25°C

Power: two AAA alkaline batteries

Current: 18uA @standby, 20mA @activation

Estimated Battery Life: 2 years (@actuated 40 times/day)

Pulse Count: 2 or 4 pulses selectable

Size: 70.5 x120 x 45 mm

Weight (w/o battery): about 85g

PIR Motion Detector (Long battery life), PIR-2SN



Supervision: sends heartbeat signal at 60-minute interval. When Tamper or Low Battery condition is detected, it reports automatically.

Detector Type: dual element

Coverage Angle: 110°

Effective Distance: Max. 12m @ambient temp. 25°C

Working temperature: -20 ~+ 50°C

Power: two AA alkaline batteries

Current: 18uA @standby, 20mA @activation

Estimated Battery Life: 4 years (@actuated 40 times/day)

Pulse Count: 2 or 4 pulses selectable

Size: 70 x 90 x 50 mm

Weight (w/o battery): about 77g

Pet-immune PIR Motion Detector, PIR-3SP



Detector Type: dual element

Coverage Angle: 110°

Pet-immunity: Up to 18kg, 60cm high

Effective Distance: Max. 12 m @ ambient temp. 25°C

RFI Immunity: Ave. 20V/m (10~10000MHZ)

Detectable Speed: 0.3~1.5m/sec.

Power: two AAA alkaline batteries

Current: 10uA @ standby, 12mA @ activation

Estimated Battery Life: 2 years (@ actuated 40 times/day)

Pulse Count: 2 or 4 pulses selectable

Mounting height: 2.2~2.4m, typical 2.3 m

Working Temperature : 0°C ~40°C

Humidity: max. 95% RH

Size: 112 x 66 x 45 mm

Weight (w/o battery): about 90 g

Outdoor PIR Motion Detector, PIR-OD1



Detector Type: dual element
Coverage Angle: 100° @25°C and DSF disabled
Pet Immunity: Up to 20kg, 60cm high
RFI Immunity: Max. 40V/m (10~10000MHZ)
Detectable Speed: 0.3~3m/sec.
Power: AA alkaline battery x 2 pcs
Current: 40uA @ standby, 15mA @ activation
Estimated Battery Life: 2~3 years (@ actuated 40 times/day)
Pulse Count: 1 or 3 pulses selectable
Mounting Height: About 1.9 m above from the floor.
Working Temperature: -20°C~50°C

Smoke Detector, SM-3S



Detection: Photo-electric Chamber
Sensitivity: meets UL 217
Power: 9V alkaline battery
Temperature: 0°C - 50°C
Relative Humidity: 10%~85%
Alarm Sound Level: 85dB@3m
Indicator Light: LED flashes every 45 seconds
Low Battery: Beep every 45 seconds
Current Drain: 6.5uA @standby, 24mA @activation
Estimated Battery Life: 2 years.
Actuation Indicator: LED ON, Buzzer ON
Size: W 140mm x H 45mm
Weight: about 288g (w/ battery)

Smoke & Heat Detector, SM-3SH



Detection: Photo-electric Chamber for smoke

Thermistor for heat, alarm level: above 57+/- 3°C

Either of smoke or heat alarm would trigger the detector

Power: 9V Alkaline Battery

Current Consumption: 10uA@ standby, 16mA@ activation

Battery Life: About 1~1.5 years

Working Temperature: 0°C ~ 50°C

Ambient Relative Humidity: 10% ~ 85%

Alarm Sound Level: 85dB@3m

Indicator Light: LED flashes every 43 seconds approximately.

Low Battery: Beep every 43 seconds approximately.

Actuation Indicator: LED ON, Buzzer ON

Size: φ102 mm x H 64mm

Weight: About 120g (w/o battery)

Wireless Call Point, TX-3DS-CP



Power Source: Two AAA alkaline batteries.

Current Drain: 3.5uA @standby, 20mA @operation.

Supervision: Sends heartbeat signal at 60-minute interval. Reports low-battery when detected.

Estimated Battery Life: 3~4 years

RF: 426Mhz, 433Mhz, 868Mhz or 915Mhz available.

Size: 97 x 97x 50 mm

Weight (with battery): About 200g

Gas Leakage Detector, GA-2S



Detection: LNG (Liquefied Natural Gas) and LPG (Liquefied Petroleum Gas)
Alarm Sensitivity: 8,000ppm for LNG, 3,300ppm for LPG
Power: 120V or 230V AC as requested.
Power Consumption: max. 2W
Buzzer: built in
Size: 88 x 45 x 123.5 mm
Weight: about 309g

Carbon Monoxide Detector, CO-M330



Complies with EN50291 and UL2034
Power: AA Alkaline battery x 3pcs
Current: 30uA@standby, 30mA@activation
Estimated Battery life: 2.5 years
Temperature: -10°C to 50°C
Size: ϕ 124mm x H 31mm
Weight: About 142g (w/o battery)

Temperature Sensor, TP-3



Power: one CR-2 Lithium battery.
Reading Update Speed: Once every 30 seconds (maximum).
Low/High Limit: -55°C/+127°C.
Working Temperature Range: -20°C to 50°C (over this range the working of the sensor is not guaranteed)
Sensor Accuracy: -10°C to 65°C +/- 1°C max.
Estimated Battery Life: 1.5 years (@Temperature variation 10 times/day)
Low Battery Detection: 2.6V+/- 0.1V.
Size: 107x25x21 mm w/o bracket, 109x28.5x23 mm with bracket.
Weight: about 35 g w/o battery, 46 g with battery

Temperature & Humidity Sensor, TH-3



Supervision: sends temperature/ humidity reading at 30-minute interval alternatively.

Power Source: one CR-2 Lithium battery.

Reading Update Speed: 30-seconds/ Reading max.

Temperature Low/High Limit: $-40^{\circ}\text{C}/103^{\circ}\text{C}$.

Temperature Accuracy: 0°C to 50°C +/- 1°C max.

-40°C to 85°C +/- 2°C max.

85°C to 103°C +/- 3°C max. (Not suitable for long time work.)

Humidity High /Low Limit: 0% to 100%

Humidity Accuracy: 20% to 80% +/- 4% max.

0% to 100% +/- 5% max.

Estimated Battery Life: 1.2 years (Temperature/Humidity variation 10 times/day)

Low Battery Detection: $2.6\text{V} \pm 0.1\text{V}$.

Size: 107x25x21 mm w/o bracket, 109x28.5x23 mm with bracket.

Weight: about 35 g w/o battery, 46 g with battery

Remote Controller, RC-3



Buttons: 4

Radio Code: hopping, with 7.3×10^{19} combinations.

Battery: CR2032 cell, 3V

Estimated Battery Life: 4 years (@actuated 4 times / day)

Size: 40.5 x 55.0 x 12.7 mm

Weight (w/ battery, w/o key ring): about 18g

Medical Button, PT-3S



Battery: CR2032 cell, 3V

Current: 1uA @ standby

15mA @ operation.

Estimated Battery life: 3 years.

Inactivity Alarm Interval: 12 hours, unchangeable

Water proof test condition: 50 cm deep in 25°C water, 5 hours

Option: Can be modified to Panic Button

Radio Repeater, RP-2SN



Input Power: 7V/850mA power adapter
Battery: 4.8V/800mAH Ni-MH
Power consumption: 26mA @ standby, with battery switch ON
Maximum Capacity: 10 sensors or transmitters
Dimensions: 77 (W) x115 (H) x27 (D) mm
Weight: About 128g, excluding power adapter

Relay Module, XRM-01



Power Input: 9~15V DC .
Current consumption: 150mA (with all 4 relays are ON)
Relay Outputs: Total 4. Relay1& Relay 2 Dry Contact, Relay 3 & Relay 4 Dry Contact/ DC Output selectable
Controller Protocol: Simulate the X-10 Power Line Interface

Wireless Keypad, KP-2S



Password: 4 digits
Power Source: Four AAA alkaline batteries.
Current Drain: 4uA @standby, 36mA @operation
Estimated battery life: 5 years (@ operate 4 times/day)
Size: 66.5 x 32 x 154.5 mm
Weight (w/o battery): about 124g

2-way Wireless Keypad, KP-3S



Power: AAA alkaline batteries x 2pcs.
Passwords: 10 sets, 4 digits for each.
Current Drain: 10uA @standby, 30mA @ RF operation
Estimated battery life: 2 years (@ operate 20 times/day)
Radio: 2-way communication.
Bracket slant angle: 7 degrees.
Size: 65 x 28 x 15 mm (Not including the bracket)
Weight (w/o battery): about 120g

RF Power Switch, XSW-01



Power Socket Output: 110VAC/ 12A or 220VAC/ 8A.
Button: For code learning and local On/Off control.
Indication: Beeper and LED.
Size: 52mm x 108mm x 41mm (not including the plug)
Weight: 110g
Working temperature: -10 ~ 40 degree C.
Usage: In door use only.
Working room area: about 150m²

Indoor Wireless Siren, WS-1S



Power: 15VDC/400mA regulated.
Current: about 25mA @stand-by, 120mA @activation
Back-up time: about 30 hours @stand-by
Siren output: 108±3dB
Size: 85 x125 x 32 mm
Weight (w/o adapter): about 233g

Wired Strobe Siren, LD-87 (6V type)



Power: 6VDC for LS-20, 12V for LS-30
Sound level: 115±3 dB (at 1 ft.)
Dimensions: φ 110mm, H 46.2mm

Outdoor Wireless Strobe Siren, WS-20S



Power: 15V/400mA
Current: about 25mA @stand-by, 135mA @activation
Back-up time: 30 hours @stand-by
Siren output: 108±-3dB
Strobe: Red or blue as required
IP Rating: 54
Size: 50 x 160 x 24 mm
Weight (w/o adapter): about 618g

2-way Outdoor Wireless Strobe Siren, WS-30S/WS-30A



WS-30S

WS-30A

Power: 0.945W Solar panel (WS-30S)
15VDC/400mA (WS-30A)
Internal rechargeable battery:
Ni-MH 6V/1300mAH
Fully charged battery back-up time:
30 days (WS-30S)
20 days (WS-30A)
Siren output: about 115 dB (@30cm, facing the piezo siren)
Current consumption: 2.5mA @standby,
170mA @activation
Strobe: Red or blue as required
Tamper protection: Removing from the bracket and opening the cover

RF: 2-way radio.

IP Rating: 54 (with dust and splashing water protected by proper installation)

Size: 90 x 233 x 190 mm

Weight: 730g

Wired Mini Siren, LD-77 (6V type)



Power: 6V, 150mA

Sound level: 108±5 dB (at 1 ft.)

Dimensions: φ 38.4mm , H 37.5mm

ETHERNET ADAPTER, BF-210



Serial Type: RS-232.

Baud Rate: 9600.

Data Bits: 8.

Parity Check: None

Stop Bits: 1.

Flow Control: None.

Force Packet Transmit Time: 100ms.

Force Packet Transmit Length: 0

USB ADAPTER, USB-3



Function: Computer interface for programming LS-30

Mini Light Detector, MX-3L



Supervision: Sending heartbeat signal at 60-minute interval.
When Low Battery condition is detected, it reports automatically.
Power: one 3V CR-2032 lithium battery.
Sensor: NaPiCa (Cadmium Free) type.
Light Intensity Threshold Level (+/-40%): 100Lux, 500Lux, 2000Lux, 4000Lux.
Current Drain: 10uA @ standby, 20mA @ operation
Estimated Battery Life: 1 year (@ actuated 10 times/day)
Operating Temperature: -10-40°C,
Detector Size: 35 x 38 x 10 mm
Detector Weight: about 12g (with battery)

4-band GSM/GPRS MODULE, GSM-30B



Quad-band GSM Engine: EGSM850, EGSM900, GSM1800 and GSM1900
Compliant to GSM Phase 2/2+
Output Power: Class 4 (2W) for EGSM900/ EGSM850, Class 1 (1W) for GSM1800/1900
Control via AT Commands, 9600bps, 0-5V UART interface.
Supply Voltage: 9V-15VDC from control cable.
Dimensions: 73 x 81 x 26mm (not including the antenna connector)
Weight: 175g (without antenna)
Operation Temperature: -20°C to +55°C

AC Power Meter, TX-3AC



Supervision: sends AC Meter/Temperature reading at 30-minute interval alternatively.
Power: AAA alkaline battery x 2 pcs.
Working Temperature Range: -20°C to 50°C (over this range the working of the device is not guaranteed)
Data Sampling Rate: 30-second/ Sampling, (15-second/Sampling available).
Temperature Sensor Operation Range: -40°C/85°C.
Temperature Accuracy: 10°C to 40°C +/- 1°C max.
-40°C to 85°C +/- 3°C max.

AC Meter Reading: 0-100 for 0~10A or 0~100A selectable.
AC Meter Accuracy: +/- 10% +/- 3 readings (for reading above 10).
Measuring method: Using AC clamp probe ST-87 with true RMS reading (50/60Hz).
Low Battery Detection: 2.6V +/- 0.1V.
Current Drain: 5uA @ standby, 20mA @ RF operation
Estimated Battery Life: 1 year @Sends 250 readings/day, or 2 years @ sends 75 readings/day
Transmitter Size/Weight: 20 x 29 x 123.5 mm, about 34g (w/o battery).
ST-87 AC Clamp probe Size/Weight: 96 x 60 x 20 mm, about 85g (excluding cable).
Max. conductor thickness to be measured: 25mm in diameter

*** (The manufacturer reserves the rights to change the specifications without prior notice)