Smart intergrated lightning protectoin box/Intelligent transmission box

Description

The intelligent transmission monitoring box series products are designed in accordance with IEC61643-21, EN61643-11:2012, NB/T42150, and IEEE802.3 to meet the needs of big data in the fields of building smart cities, smart transportation, rail transit, safe cities, public security video surveillance, etc. Information management needs, self-developed and customizable intelligent transmission monitoring communication products. The product meets the various functional requirements of the original communication box, combines the characteristics of the safe city monitoring platform, and the demand for future information management and control, and adds the Internet of Things communication technology. This box adopts intuitive and visual modular layout and system lightning protection design, complete network management function and intuitive status indication; to ensure the timeliness, reliability, continuity and intelligence of the entire system, saving a lot of manpower and economic costs, It is the preferred product in the monitoring field at home and abroad.

Feature

Adopt high-strength cold-rolled steel plate with integral galvanized and plastic sprayed.
• Support installation methods such as pole-mounted and wall-mounted.
• The cabinet is equipped with intelligent controllable fans;
• Automatically turn on the lighting when out of the box.
• The box has a built-in 4-port optical fiber fusion splicing unit.
• Intelligent dust removal.
• Intelligently judge the status of mains power failure, network disconnection, and tripping.
• Power lightning protection device failure detection, lightning strike intensity real-time detection of the magnitude, number, and time of lightning strike intensity.
• Tilt alarm.
• Water leakage detection.
• The cabinet is equipped with an air switch, an automatic mechanical closing circuit breaker, and a power supply lightning protection module.
• Intelligently judge the working status of optical ports and network ports.
• Equipment failure information supports reporting methods such as SMS dispatch, sound alarm, and pop-up windows.
• Configure a variety of controllable power output modules, output AC220V, DC12V,
Optional DC24V, AC24V, etc.
• Configure the ground flashback isolation suppression module

Specification:

Specification of Intelligent transmission box	
automatic reclosing switch	
	220VAC
Rated voltage	16A
residual operating current	30mA
Rated frquency	50HZ
Lightning protection for AC power supply	
Max discharging current(8/20us) Imax	80KA
Norminal working voltage (Un)	220VAC
Max continuous operating voltage Uc	385VAC
Response time	<25ns
Lightning protection for DC power supply	
Max discharging current(8/20us) Imax	5KA
Lightning protection for electrical port	
Max discharging current(8/20us) Imax	5KA
fibre optical port	
Fibre optical port type	FC/SC
Working wave	T1310/R1550
Photoelectric transmission distance	40KM
Qty of fibre optical port	1
Fiber fusion splicing unit	4
Network electrical port	
Qty of electrical port	1-8（option）
duplex type	Support both full and half duplex
Connection type	cross 、direction and adaptive connection
Communication protocol standard	IEEE802.3 10BASE-T、IEEE802.3u 100BASE-TX、IEEE802.3ab 1000Base-TIEEE802.3x Flow Control、IEEE802.3z 1000Base-SX/LX，IEEE802.3u 100BASE-FX
Optical transmission distance	100M
Controllable power output	
Controllable power(96W)output port	DC 12V （ 1-8 DC power port）
	DC 24V （ 1-8 DC power port）
AC220V controllable output	1 port
Environmental monitoring in the box	
head lamp	Auto LED light when the box is opened
Temperature controlled fan	Two sets of fan control
Temperature in the box	Temperature monitoring and alarm in the box
Humidity in the box	Humidity monitoring and alarm in the box
Water leaks in the box	Water leakage monitoring and alarm in the box
Lightning strike count	Counting threshold:1KA
Ground detection	Lightning protection grounding abnormal monitoring and
Lightning protection module failure monitoring	Lightning protection module failure monitoring and alarm
Remote monitoring control platform	Platform management

Other parameters	
Dimension of body	520*380*220（customized）
Installation	Default hoop installation（Flange installation can be customzied)
Input power	AC100V-AC240V
Other configuration (optional)	
Leakage current monitoring of lightning protection module	Leakage current monitoring and alarm of lightning protection module
Noise monitoring	Environmental noise monitoring and alarm outside the box
Door electromagnetic lock	Anti-theft and prevent abnormal opening
Dust removal fan	Intelligent dust removal from the fan at the bottom of the
Spare battery	24V battery, can provide control and transmission of box monitoring data when the power is off
Gas concentration	Combustible gas concentration monitoring and alarm
Outside temperature	1 port
AC220V power output	1-4 port
AC power Max discharging current(8/20us) Imax	120KA
Ground isolation suppressor	Counterattack split ratio＜5%
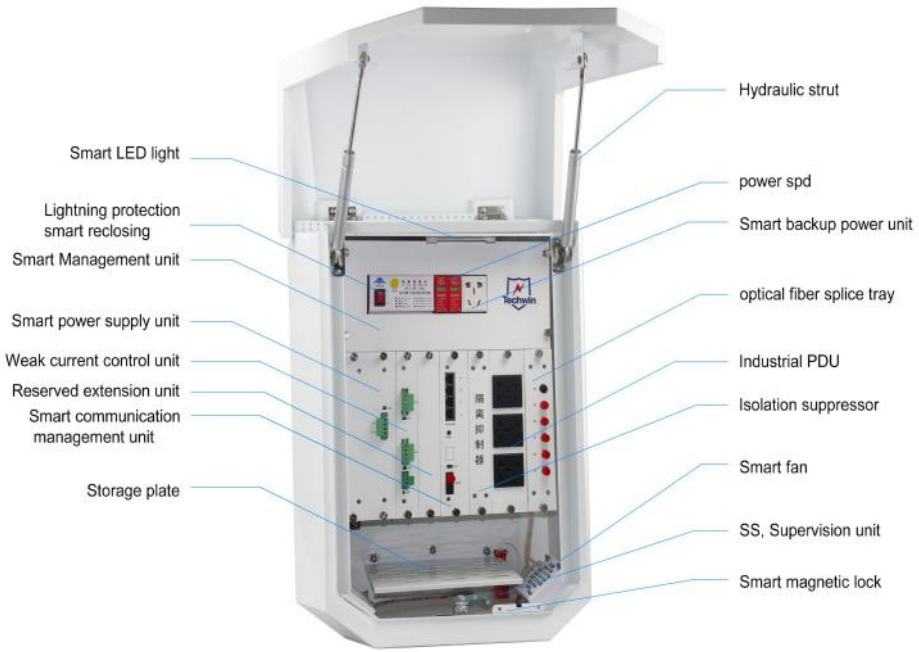
Diagram: