



Intelligent management terminal for data collection and processing

Technical Manual



Introduction

The data from the on-site monitoring instruments for pollution source treatment is collected and processed by the data acquisition and transmission instrument, and sent back to the receiving server of the Environmental Protection Bureau's monitoring center through GPRS wireless data terminal or ADSL China Telecom broadband network. The monitoring center software of the Environmental Protection Bureau parses the received data according to the communication protocol and stores it on the central database server to achieve synchronous monitoring, recording, and processing of data by the monitoring center. The monitoring center software of the Environmental Protection Bureau can automatically monitor multiple signals based on the setting of data alarm volume, reducing dependence on personnel and achieving unmanned operation.

Applications

An embedded system used for collecting, displaying, and storing data from various types of monitoring instruments and meters, and capable of completing data transmission (bidirectional communication) with the upper computer. Therefore, it is an indispensable instrument in the real-time monitoring and total control system of pollutants.



Technical parameter comparison chart

Functional module		Linux version (new regular version)	Linux version (new dynamic control version)
Operating system	System type	Linux-5.4.0	Linux-5.4.0
	Onboard storage	32GB FLASH	32GB FLASH
Storage	MicroSD card	Supported (up to 32G)	Supported (up to 32G)
	Display resolution	1280*800	1280*800
Display	Display Size	10.1 inches	10.1 inches
	Ethernet	Two gigabit Ethernet ports	Two gigabit Ethernet ports
Input output interface	wireless	4G (all network connectivity)	4G (all network connectivity)
	USB	2-way standard USB interface Including 1 USB OTG interface (debugging interface)	2-way standard USB interface Including 1 USB OTG interface (debugging interface)
Input output interface	Serial port	10 standard three wire RS232, 3 standard two wire RS485	10 standard three wire RS232, 3 standard two wire RS485
	Switching input	8 channels (0-5V input)	8 channels (0-5V input)
Input output interface	Analog input	8 channels 16 bit analog input signal 4-20mA compatible with 0-5V, measurement error ≤ 0.1%	8 channels 16 bit analog input signal 4-20mA compatible with 0-5V, measurement error ≤ 0.1%
	Switching output	7 relay outputs	7 relay outputs
Other	size	315x400x130mm	315x400x130mm
	Power supply	AC220V/50HZ	AC220V/50HZ
Other	Backup power supply	Built in 112V 10400mA/h lithium battery pack Battery life ≥ 8h	Built in 112V 10400mA/h lithium battery pack Battery life ≥ 8h

Work environment	Temperature:-10~55°Crelative humidity:≤90%RH	Temperature:-10~55°Crelative humidity:≤90%RH
Power	< 8W	< 8W



Function List

Functional module		Linux version (new regular version)	Linux version (new dynamic control version)
Exhibition	Sign in	√	√
	real-time data	√	√
	historical data	√	√
	statistical data	√	√
	Display of data acquisition instrument configuration information	√	√
	Operation log	√	√
Local configuration	Upload Configuration	√	√
	Collection Configuration	√	√
	Time Configuration	√	√
	Alarm threshold	√	√
	Reverse control configuration	√	√
Remote upgrade	Remote serial port debugging	√	√
	Remote data upgrade	√	√
	Remote update of protocol library	√	√
Data reissue	Manual reissue	√	√
	Automatic reissue	√	√
Collocation method	Manual configuration, export configuration	√	√
	Import configuration, export configuration	√	√
	Dynamic control	√	√
	Transmit every change	×	√
	Camera and access control directly enter	×	√

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