



GPD60(C)、FYF0.2

Description

GPD60(C)

This product can be timed according to the user to set time data acquisition and display the current pressure value, connected by FYF0.2 (mine intrinsically safe infrared remote control transmitter) or directly to the computer to read the stored data. Arrived a few power consumption, battery life of a typical work year. Using this product will greatly improve the user environment for the mine site level pressure monitoring.

This product contains the following modules: signal acquisition, data storage, infrared transceiver, human-computer interaction.

Specific works as follows: the user starts the transmitter through the key input or light sensors, timing acquisition system based on the time set by the user or stored data, during the microcontroller power supply cut off part of the peripheral circuit, while going to sleep to save power. When it reaches the time set by the user, the clock chip generates an interrupt signal to wake the device back to work.

FYF0.2 (mine intrinsically safe infrared remote control transmitter)

The products and GPD60 (C) supporting the use of mine intrinsically safe pressure transmitter. An intermediate link data acquisition, we use high stability chip quickly and accurately process the data, the large-capacity memory chip to ensure data reliability. Remote transmitter using the infrared communication unit to communicate with the transmitter, but also through the RS232 interface to the PC to upload data.

Mainly by the communication unit, a storage unit, a display unit, a keyboard module.

This product uses low-power MCU as the core of the transmitter, users select the menu button functionality provided, using infrared communication unit realization and communication transmitters, pressure data is read or set its parameters, data storage unit 128 pressure transmitters can save data via RS232 communication interface parameters of the data uploaded to a computer. Products using LCD interface, real-time clock unit prompts the current time and from time to calibrate the machine. Entire product uses low-power design, standby time cut off the main circuit power supply, turn off the backlight timeout or automatic shutdown.

Applications

Coal fields

Oil and gas fields

Unattended pressure measurement site

Features:

- ◆3.6V battery powered
- ◆Large storage capacity, can store 520,000 sets of data
- ◆Real-time data storage
- ◆Ultra-low power consumption, the quiescent current less than 5uA
- ◆Start button or light exposure
- ◆Acquisition cycle and alarm pressure adjustable
- ◆Overpressure alarm, maximum pressure 180Mpa
- ◆Products with the certification of coal

FYF0.2 :

- ◆Infrared Communication
- ◆3 seconds fast boot response



- ◆ Without having to reset the time the boot
- ◆ Human interface design
- ◆ Using 3 batteries(size AA), easy replacement
- ◆ Can be connected with PC, easy to view historical data

Specifications:

GPD60(C) :

Intrinsically safe parameters:

Maximum open circuit voltage of the battery: 3.7V ;

Battery Maximum output current: 1.85A

Supply Voltage: 3.6V;

maximum operating current: 20mA

Battery type: Lithium thionyl chloride battery (Comply with the requirements of coal)

Output type: Product display pressure (0~60MPa)

Error in normal temperature: $\pm 1\%$ FS

FYF0.2 :

Maximum open circuit voltage of battery group: 4.3V;

The maximum output current of battery: 7.40A

Supply Voltage: 4.1V

Operating Current: 20mA

Transmission distance: (0~0.2) m

Transmission angle: (0~30) °

Battery meets the requirements of coal;

Transmitter and transmitter normal communication, the GPD60 (C) modify settings and storage pressure data to achieve various parameters. Communication method of using wireless infrared communication standard of IrDA 1, the baud rate 115.2K;

Communication with the computer can read normal transmitter, transmitter parameters and pressure data. Communication by RS232 interface, the baud rate 115.2K;

Application Description:

GPD60 (C) mine intrinsically safe pressure transmitter for the manual hydraulic bracket accessory products, manual hydraulic support that work quality monitoring hydraulic support, namely mining pressure monitoring, reflects a safety indicators. Pressure sensor detects changes in the value of real-time pressure hydraulic support, including former pillar pressure, pressure and reach the beam rear strut pressure, and can change the amount of pressure is transmitted to the data acquisition station for further processing.

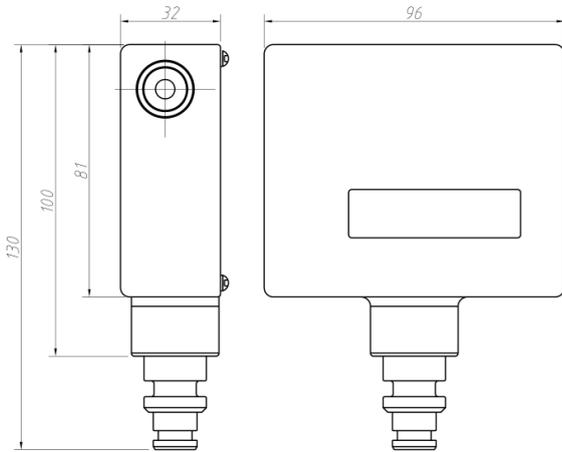
FYF0.2 and GPD60 (C) transmitters constitute a complete set of supporting the use of pressure collection system, infrared data acquisition using infrared communications transmitter reads the stored pressure data, and upload it to the PC for the system to do data analysis.

Specifications selection: GPD60(C); FYF0.2

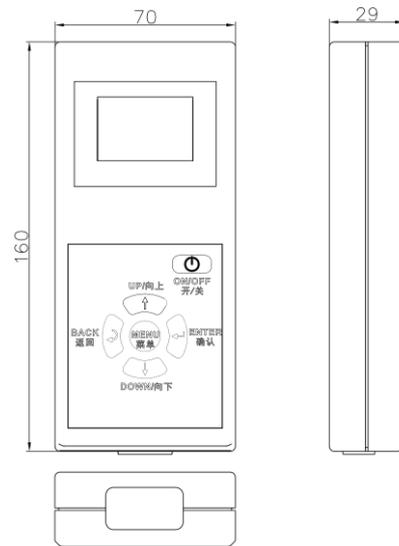




Product Diagram:



GPD60(C)



FYF0.2

Product Picture:



GPD60(C)



Application picture: No

Gross Weight: 1015g (GPD60(C)), 220g

Net Weight: 965g (GPD60(C)), 170g (FYF0.2)

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