



DLPCS-YLMK Pressure Controlled Module

I Overview

The DLPCS-YLMK pressure controlled module is a panel-mounted ready-to-install element. In conjunction with other modular control components, it enables pressure control systems with different characteristic features to be constructed and investigated.

The panel is mounted on the frame of the base module DLPCS-JCDYP. DLPCS-YLMK consists of two steel pressure tanks and is operated with compressed air as the working medium. Each tank is fitted with a manometer and a safety valve. One tank also has a drain valve. Both tanks can be fitted with a pressure sensor. The tanks are interconnected by a vent valve and can therefore be connected in series. This makes it possible to represent both first and second order pressure control systems.

The DLPCS-JCDYP base module supplies the controlled system module with its working compressed air. Pneumatic hoses with quick-release couplings connect all the modules to a pressure control loop.

II Training content

Understanding and application of pumps

Understanding and application of the control panel

Understanding and application of pressure controller

Understanding and application of pressure sensors

Understanding and application of pressure PID

Through systematic training to enable students to master the following skills:

Process control applications

Learn how to choose application of electrical components

Standard design and components of electrical schematic symbols requirement

Debugging process systems: test machine running; debugging machine position; debugging sensor;

Fault diagnosis and maintenance of equipment.

III Technical parameter

1, ambient temperature: $-10\text{ }^{\circ}\text{C} \sim 40\text{ }^{\circ}\text{C}$

Humidity: $\leq 90\%$ ($25\text{ }^{\circ}\text{C}$)

2, Dimensions: 500x180x600 mm (length \times width \times height)