Module and Application Description

PROCONTROL P
Modules of the Turbine Control System

Test and Indicator Unit for the Bypass Controller

89PA32 – E/R0100

Application

The test and indicator unit is used for internal operation and monitoring of the bypass controller.

Features

The module is mounted in a 19", 6 U standard withdrawable subrack with a female multi-point connector, type F.
The module is wire-connected with the system.

Description

The desired function is set by means of key switches or key-operated pushbuttons. The messages are annunciated by LEDs.
All the contacts of the key switches and the key-operated pushbuttons use the same reference potential.

Annunciations on the module

On the module front, 2 LEDs are mounted.
The green LEDs indicate the following process criteria:
 – Simulation ON
 – Valve test ON

The diodes are illuminated as long as a ‘1’ signal is present at the related input.
Function diagram

Terminal designations

All the inputs and outputs of the module are connected via a printed—circuit board to connector X21 (cf. "Mechanical design").
Mechanical design

Board size:  6 units, 4.5 divisions, 160 mm deep
Connector: to DIN 41 612
            1 x 48–pole edge connector, type F
            (connector X21)
Weight:    approx. 0.47 kg

Contact assignments of connector X21

Cf. Function diagram.

View of module front and module side
Technical data

In addition to the system data, the following values apply:

**Power supply**

- Operating voltage: +24 V, to be fused with \( \leq 2 \text{ A (ETA m.c.b.)} \)
- Power dissipation: 120 mW

**Input values**

- Indication of '0' signal: 0 ... 3 V
- Indication of '1' signal: 11.2 ... 30 V (< 25 mA)

**Output values**

- Contact outputs:
  - Switching voltage: < 60 V
  - Switching current: < 1 A
  - Contact rating: \( \leq 60 \text{ W} \)

**ORDERING DATA**

- Type designation: 89PA32–E/R0100
- Order number: GKWD981702R0100
- Spare keys: Order number: GKWD981702P22

Technical data are subject to change without notice!

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