

# Module and Application Description

## PROCONTROL P

Input, Output, Signal Conditioning

### Transmitter Simulation Module

for Unused Function Units

Publication No.

GKWE 705 322 E, edition 09/90

Replacing GKWE 705 322 E, edition 06/88

## 81ES01R0200/R0300/R0400

### Application

The transmitter simulation module for unused function units serves for wiring unused function units of input modules connected to the station bus and IO bus.

It is used in connection with monitored inputs of binary input modules, analog input modules or NAMUR input modules to simulate a connected transmitter.

The module is available in three hardware versions which differ by their resistance values.

Transmitter simulation modules are plugged into the cubicle-mounted connector half of the respective input module.

The following three versions are available:

81ES01/R0200	For binary input module 81EB02/R1020 Design: Resistor 47.5 kOhms
81ES01/R0300	For analog input module 81EA11/R0200/R0210 Design: Resistor 2.7 kOhms
81ES01/R0400	For NAMUR input module 81EN10/R0100 Design: resistor 1 kOhm

### Description

Depending on the version, the transmitter simulation module comprises one resistor or one wire jumper, a small printed circuit board, and connecting elements for plugging into the cubicle mounted connectors of the input modules.

#### 81EB02 Wiring specification

Unused function units of binary input modules 81EB02 have to be wired differently, depending on the module version.

#### 81EB02/R1020

Unused function units have to be wired with transmitter simulation module 81ES01/R0200.

Wiring is done via the respective unused contacts RXX and SXX.

#### 81EB02/R1122

Unused function units are not to be wired.

#### 81EA11 Wiring specification

Unused function units of analog input modules 81EA11 have to be wired differently, depending on the module versions.

#### 81EA11/R0100/R0110

Unused function units need not be wired.

#### 81EA11/R0200/R0210

Unused function units have to be wired with transmitter simulation module 81ES01/R0300.

Wiring is done via the respective unused contacts EXX1 and EXX2.

(Appropriate switch S501...S516 in switch position 2).

**81EA11/R0300/R0310**

For unused function units jumpers are inserted on the cubicle-side connectors (EXX1 and EXX2) and they are connected to frame.

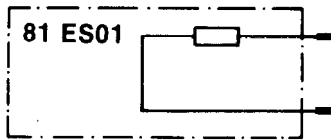
**81EN10 Wiring specification**

If Unused function units of the module are not wired, the respective function units generate a monitor response.

A transmitter simulation module 81ES01/R0400 shall be used to wire the unused function units.

Wiring is effected by way of the respective unused contacts RXX and SXX.

**Function diagram**



1 ohmic resistor

**Technical data**

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

**81ES01/R0200**

Resistance value: 47.5 kohms  
 Loading capacity: 0.25 W

**81ES01/R0300**

Resistance value: 2.7 kohms  
 Loading capacity: 0.25 W

**81ES01/R0400**

Resistance value: 1 kohm  
 Loading capacity: 0.25 W

**Permissible temperature ranges**

Operating temperature: 0 °C ... 70 °C  
 Storage temperature: -40 °C ... 85 °C

**ORDERING DATA**

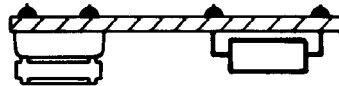
Type designation:	81ES01/R0200	Order number:	GJR2355800R0200
	81ES01/R0300	(per item)	GJR2355800R0300
	81ES01/R0400		GJR2355800R0400

Smallest packing unit  
 (minimum quantity to be ordered) 15 items.

Technical data are subject to change without notice!

**Mechanical design**

The printed circuit board is the same for all module versions; the components installed are different, however.



Female contacts



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