PadIn 4

M-Bus status module

Inquiry of four floating contacts

Supplied by M-Bus

For alarm units and sensors

M-Bus protocol according to EN1434-3

Flexible setup by M-Bus

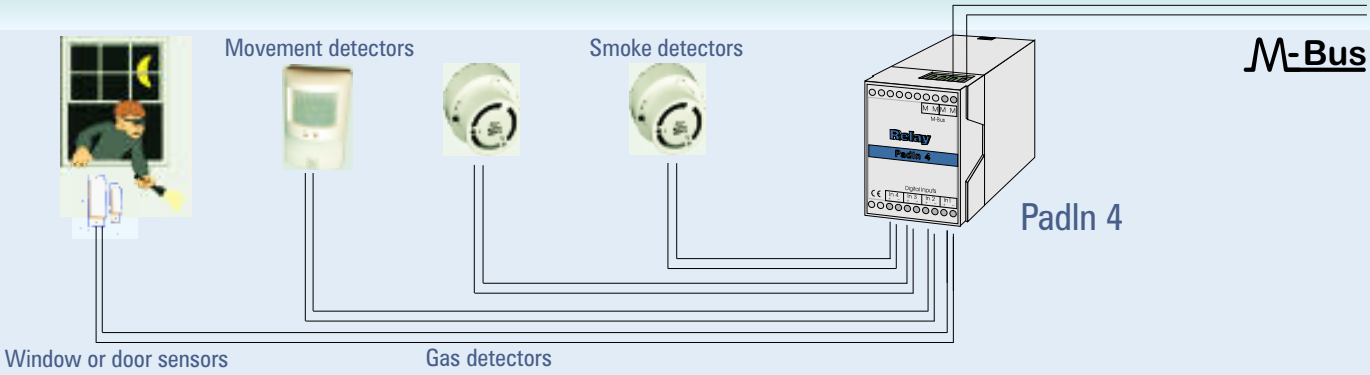
Status monitoring by M-Bus - PadIn 4 makes it possible! With the PadIn 4 up to four digital state indicators can be evaluated. Thus it is suitable e.g. for the process monitoring with pressure, temperature or gas alarm units, as well as for building monitoring with door and window sensors. Because of the M-Bus power supply voltage the PadIn 4 needs no additional power pack. The user can setup all important parameters by the M-Bus and then protect them against rewriting. By these features the PadIn 4 offers a simple and economical possibility for extending existing or planned M-Bus installations by a monitoring function.

Relay

PadMess

Simply efficient:

PadIn 4



Function of the PadIn 4

The PadIn 4 enables reading of four digital state indicators by the M-Bus. Thus e.g. fault signals or status indications of electrical devices in the industry or of alarm units such as window or door sensors can be evaluated and monitored. During a data inquiry of the M-Bus master the four inputs of the PadIn 4 are scanned and reported in the response telegram. The query of the inputs is effectively debounced by majority decision after 5 times sampling in the interval of 1ms.

The parameters address, identification number and medium of the M-Bus protocol can be programmed as required. After adjustment these parameters are stored non volatile in an EEPROM and can be protected against rewriting. This protection can only be removed by opening the sealable case. The housing of the PadIn 4 is suitable for assembly on a DIN rail or for wall mounting.

Technical data

Power supply:	supplied by M-Bus
Quiscent current:	typ. 1.25mA, max. 1.5mA (1 unit load)
Pulse current:	quiescent current +typ. 15mA (1unit load)
Temperature range:	0 .. 60 °C
Contact voltage:	3.0V to 3.6V, typically 3.3V
Contact current:	3.0mA to 3.6mA, typically 3.3mA
Guaranteed debouncing time:	2.0ms
Working resistance:	1kΩ
M-Bus protocol:	according to EN1434-3
Transmission rate:	300, 2400 and 9600 Baud (with auto-baud detect)
Addressing:	primary and secondary
Housing:	ABS-plastic, light-grey WxHxD (55 x 75 x 110) mm, DIN rail according to DIN-EN 50 022, optionally wall mountable,
Protction type:	IP40

Requirements to the signal generators:

Potential:	floating, insulation to ground>1MΩ
resistance:	open > 100kΩ, closed < 100Ω
Capacity (including cable):	< 10nF
Length of cable:	< 3m

Order information

PadIn 4 status module — Art.-No. MB PADIN4

Delivery contains:
Software to setup the PadIn4

Accessories

Mikro-Master for setup — Art.-No. MR003

M-Bus readout software:
Look@M-Bus for Windows95/98/NT — Art.-No. SW006

Relay
Reinecke Elektronikentwicklung und Layout GmbH
Stettiner Str. 38
D-33106 Paderborn
www.relay.de
Tel.: 05251 / 1767-0
Fax.: 05251 / 1767-20
EMail: info@relay.de

PadMess
Meß- und Kommunikationstechnik GmbH
Stettiner Str. 38
D-33106 Paderborn
www.padmess.de
Tel.: 05251 / 1769-0
Fax.: 05251 / 1769-20
EMail: info@padmess.de