

AS-Interface Extension Plug

Construction

The AS Interface Extension Plug serves to extend the network cable length from the current 100m to 200m without a repeater. This is a passive component without an address in the AS-Interface field bus system. At the same time, the extension plug serves as a voltage monitor. Low voltages are signalled by the integrated LED.

The extension plug can also be employed in a standard network in order to improve the signal quality and to reduce possible existing telegram error rate.

Features

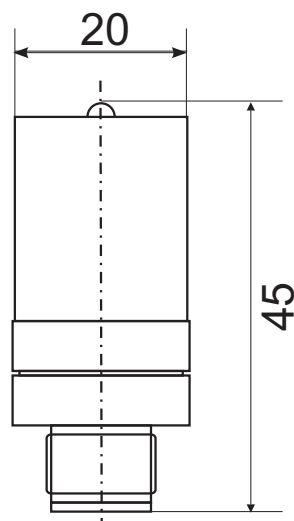
- Doubling of the AS-Interface cable length to 200m per network
- Integrated low voltage detection
- Simple connection via an AS-Interface M12 circular connector (GEMÜ 4140)

Advantages

- Quality improvement of the AS-Interface signal
- Maximum extension of the AS-Interface network to a max. of 600m (with repeater)
- Reduction of the telegram error rate



Dimensions GEMÜ 4150 [mm]



Technical data

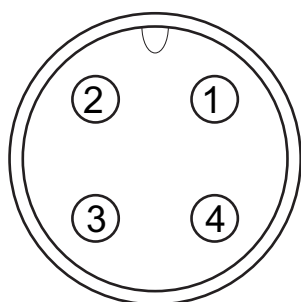
General

Ambient temperature	-25 ... +70°C
Protection type acc. to EN 60529	IP 67
Max. vibration (momentary)	1.5 mm amplitude (10..55Hz)
Max. shock	10 g

Electrical data

AS-Interface voltage range	26.5 ... 31.6 V	(green continuous LED light)
Max. current consumption	≤ 10 mA	
Reverse battery protection	existing	
Start-up delay	< 1 s	
AS-Interface low voltage range	approx. 15 V ... 26.5 V	(blinking green LED)
Low voltage change-over point	25.5 V ± 1 V	
Min. length of a power failure	1 ms	
Min. switching-off duration of display	300 ms	
AS-Interface specification	V 2.11	
Display „Power“	LED (green)	
Electrical connection	M12 circular connector	

Electrical connection



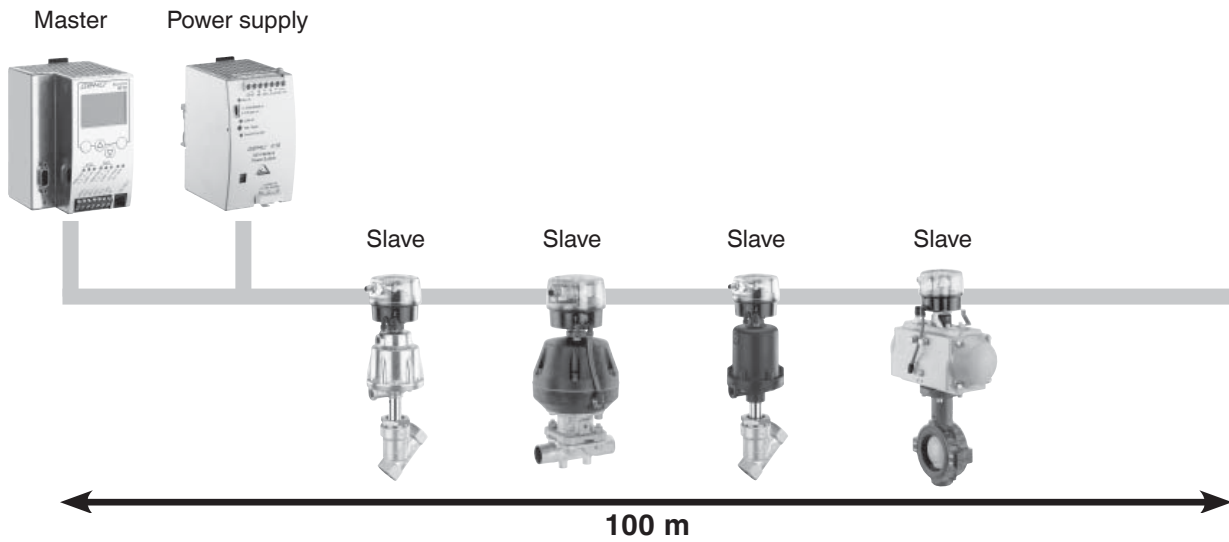
Pin 1:	AS-i +
Pin 2:	n.c.
Pin 3:	AS-i -
Pin 4:	n.c.

Features of the AS-Interface network

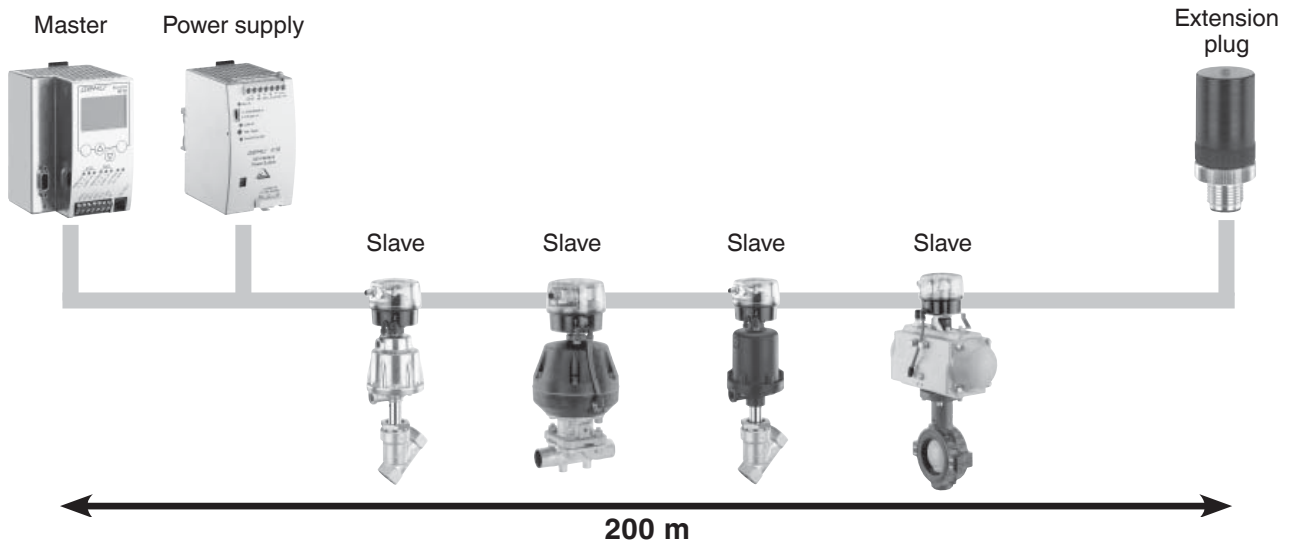
	without Extension Plug	with Extension Plug
Max. number slaves	62	62
Network topology allowed	star, ring, line, line with drop cable, tree	star, ring, line, line with drop cable, tree
Max. distance master-slave without (with) repeaters	100m (300m with two repeaters in line)	200m (400m with one repeater)
Max. distance slave-slave without (with) repeaters	100m (500m)	200m (600m)

Construction of the AS-Interface network

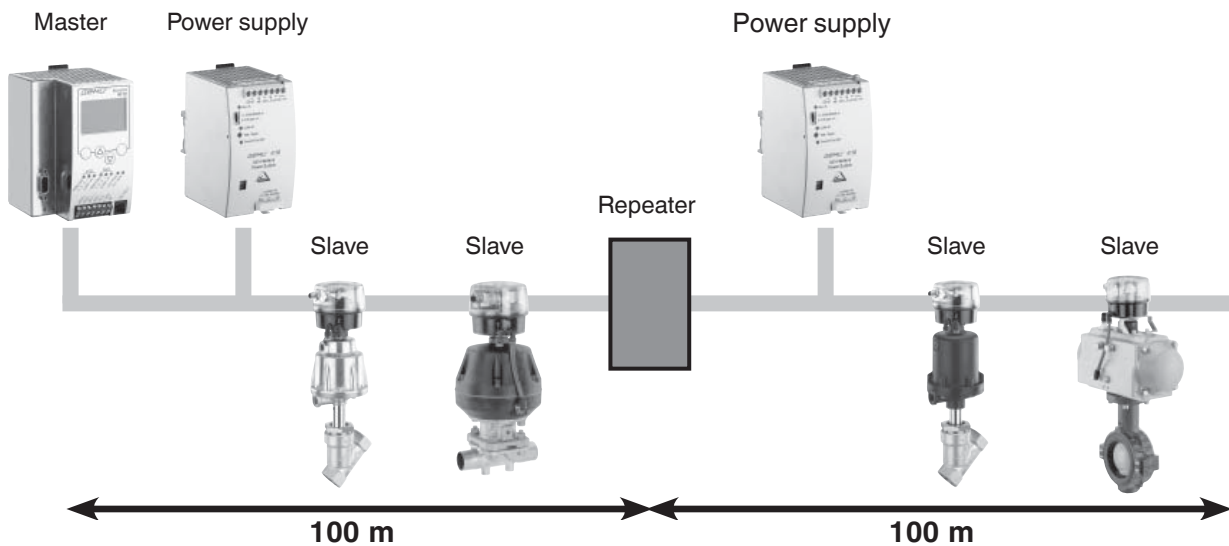
Standard AS-Interface network



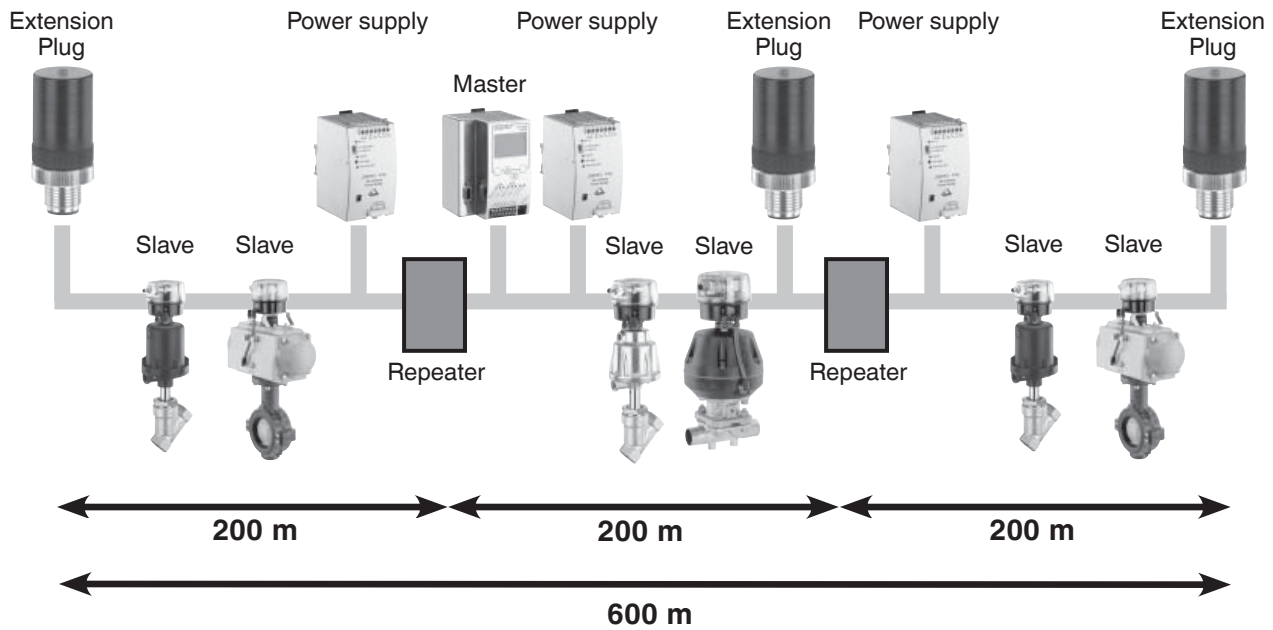
AS-Interface network with extension plug



AS-Interface network with repeater



AS-Interface network with extension plug and repeaters



Order data

Field bus	Code	Option	Code
AS-Interface	A	none	00

Accessory	Code
Accessory	Z

Order example	4150	A	Z	00
Type	4150			
Field bus (Code)		A		
Accessory (Code)			Z	
Option (Code)				00

Accessories



AS-Interface
Connector
GEMÜ 4180

For further accessories and other products,
please see our Product Range catalogue and Price List.
Contact GEMÜ.



GEMÜ® VALVES, MEASUREMENT
AND CONTROL SYSTEMS