

## 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

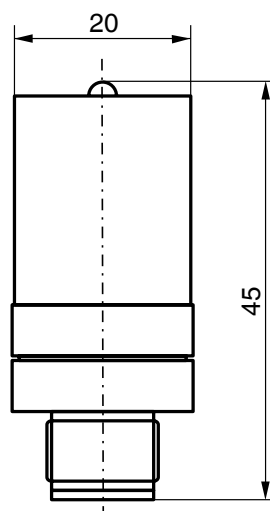
- Doubling of the AS-Interface cable length to 200m per network
- Integrated low voltage detection
- Simple connection via an AS-Interface M12 circular connector (GEMÜ 4140)

### 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

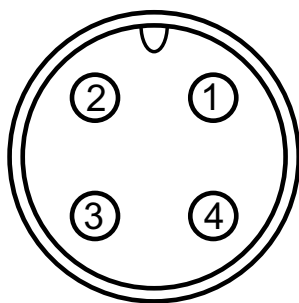
### General

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 ... 31.6V	(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 ... 26.5V	(blinking green LED)
Low voltage change-over point	25.5V ± 1V	
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



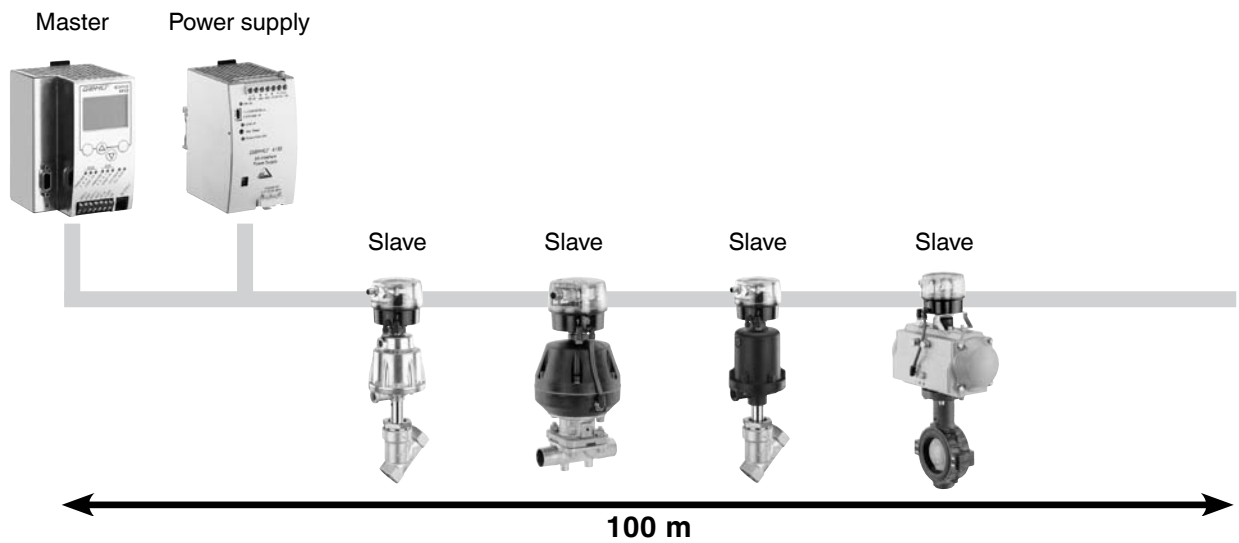
Pin 1:	AS-i +
Pin 2:	n.c.
Pin 3:	AS-i -
Pin 4:	n.c.

## Features of the AS-Interface network

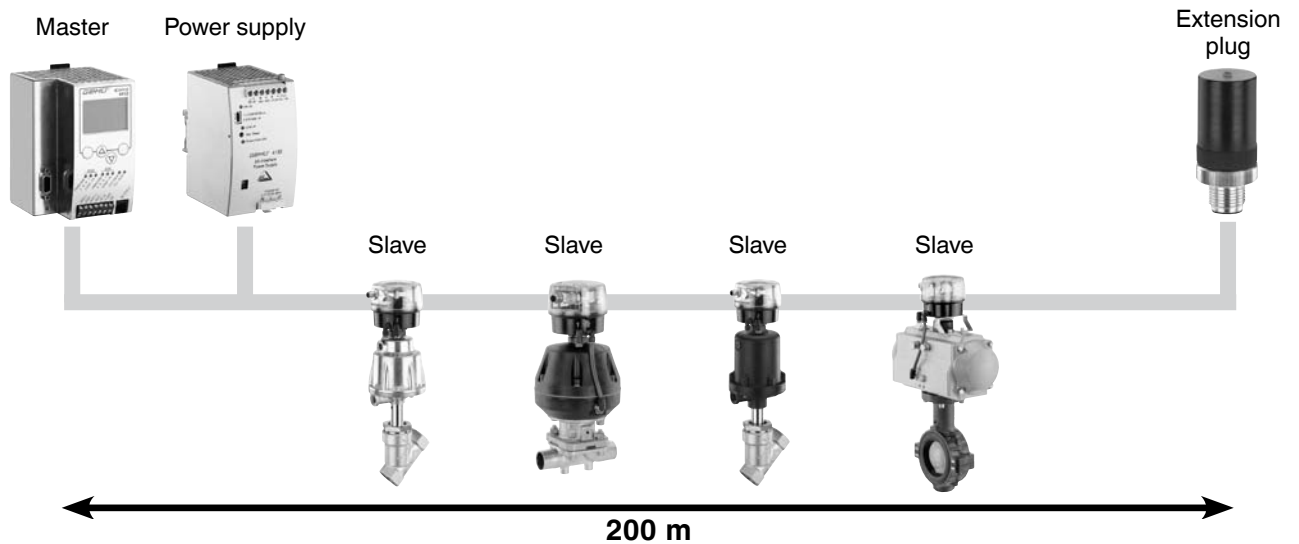
	without Extension Plug	with Extension Plug
<b>Max. number slaves</b>	62	62
<b>Network topology allowed</b>	star, ring, line, line with drop cable, tree	star, ring, line, line with drop cable, tree
<b>Max. distance master-slave without (with) repeaters</b>	100m (300m with two repeaters in line)	200m (400m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

## Construction of the AS-Interface network

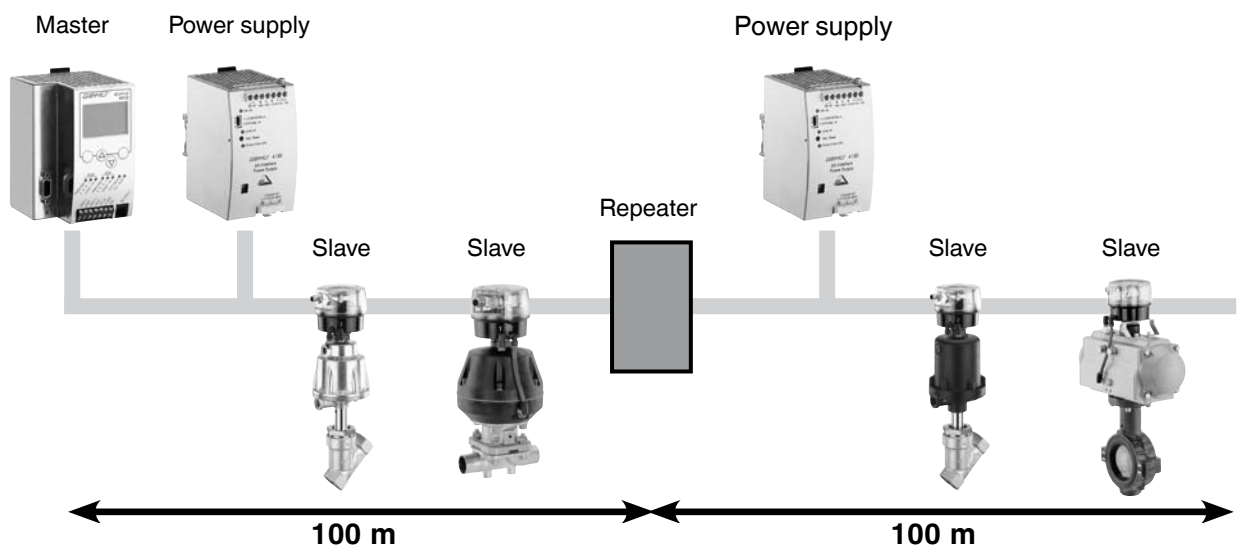
### Standard AS-Interface network



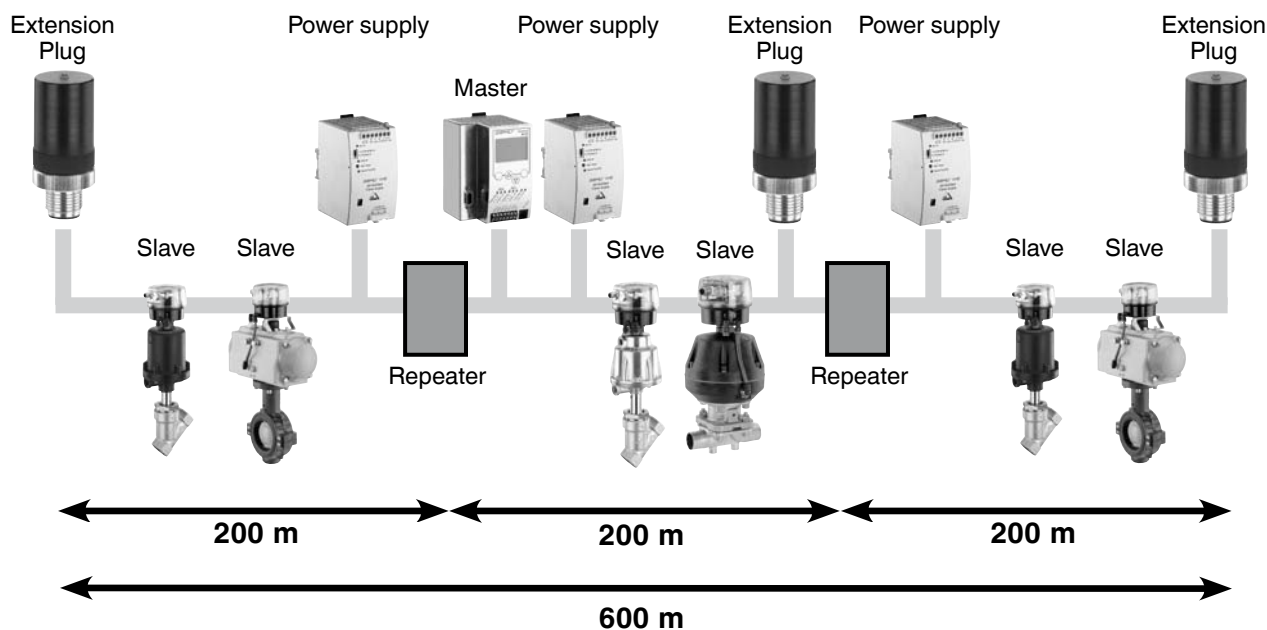
### AS-Interface network with extension plug



### AS-Interface network with repeater



## AS-Interface network with extension plug and repeaters



### Order data

Field bus	Code
AS-Interface	A

Option	Code
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.

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AND CONTROL SYSTEMS

