

Wireless communication between shockproof mobile transmitter unit and local wireless LAN.

- Suitable for battery powered tests without trailing cable
- Operation as stand-alone M=BUS System or as system setup with the MESSRING Trailing Cable Box
- Ability to wirelessly transmit data from any kind of data acquisition system equipped with Ethernet



Figure 1: Example system setup

## TECHNICAL SPECIFICATIONS

Supply voltage	18...22 VDC
Power consumption	18 W
Max. overvoltage protection	36 VDC
Communication (wireless)	Standard IEEE 802.11g or Standard IEEE 802.11 a/h/j
Transmission range (wireless)	60 m (within building) and 300 m (outdoor area)
Communication (Ethernet)	IEEE 802.3 i/u Ethernet 10Mbit/s / 100Mbit/s
Configuration interface	per WEB-Interface
Operating temperature	0...45°C
Shockproof	1,000 G
Dimensions (L x W x H)	113 mm x 80 mm x 46 mm Uses 4 slots on M=BUS Pro Mounting Rail (optional)
Dimensions mounting plate (L x W x H)	113 mm x 104 mm x 6 mm Mounting grid: 50 mm x 100 mm (M)
Weight	0.3 kg
Weight mounting plate	0.3 kg

- Scope of supply**
- M=BUS Wireless LAN Bridge
  - Connection kit
  - Mounting plate

- Optional equipment**
- M=BUS data acquisition system
  - Trailing cable system
  - IT infrastructure integration
  - M=BUS UPS

## PIN ASSIGNMENT

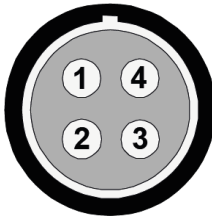


Figure 2: Pin assignment power (socket view, device)  
Use this plug: LEMO FGG.2B.304...

Pin	Description	Pin	Description
1	+ 22 VDC	3	485 A
2	Negative excitation (GND)	4	485 B
Socket housing connected to ground.			

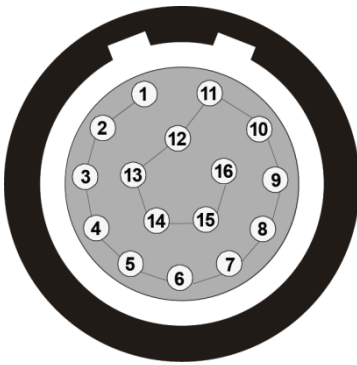


Figure 3: Pin assignment M=BUS system connection (socket view, device)  
Use this plug: LEMO FGC.2B.316...

Pin	Description	Pin	Description
1	Network TX+	9	485 A
2	Network TX-	10	485 B
3	Network RX+	11	+ 22 VDC
4	Network RX-	12	+ 22 VDC
5	Trigger 5 V / 120 mA	13	+ 22 VDC
6	Trigger Signal B	14	Ground
7	Trigger Signal A	15	Ground
8	Trigger insulated GND	16	Ground
Socket housing connected to ground.			

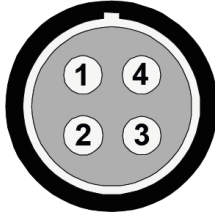


Figure 4: Pin assignment trigger (socket view, device)  
Use this plug: LEMO FGG.1B.304...

Pin	Description	Pin	Description
1	Trigger + 5 V	3	Trigger A
2	Trigger B	4	Trigger GND
Socket housing connected to ground.			



Figure 5: Pin assignment trailing cable box (socket view, device)  
Use this plug: LEMO FGB.1B.308...

Pin	Description	Pin	Description
1	Network TX+	5	+ 22 VDC
2	Network TX-	6	Network RX-
3	Network RX+	7	GND
4	+ 22 VDC	8	GND
Socket housing connected to ground.			