

Wireless Load Cell Connection Module

model **DLV**



Properties

- transmission system: Bluetooth 4.0 Low Energy 2.4 GHz
- processor: ARM Cortex M0
- distance range: 20-30 meters

Receiver

Parameter	Value
Receiver	Connected to the weighing indicator as a load cell
Power supply voltage from the weighing indicator	5-10 Vdc
Power consumption	max. 25mA
Constant emulated load cell	2.0 mV/V
Emulated voltage	Proportional to the voltage supplied by the weighing indicator
D / A converter	16-bit, effective resolution 16-bit
Zero drift of amplifiers	<5ppm/K
Resistors in the analog circuit	0.1%, 25ppm/K
Total error after calibration (estimated):	max. 90ppm/K (0.009%/K)
Operating temperature	-40°C up to +85°C
Number of transmitter connected to one receiver	1-4
Number of channels	1-128

Transmitter

Parameter	Value
Excitation	3.3 Vdc max 100mA
D / A converter	16-bit, effective resolution 16-bit
Frequency of measurement	4.17x/sek (max. 50x/sek)
Resistors in the analog circuit	0.1%, 25ppm/K
Total error after calibration (estimated)	max. 75ppm/K (0.0075%/K)
Power	Li-Ion / Li-Po 3.7V battery
Power consumption without load cell	< 5mA
Power consumption by a 360Ω load cell	9.2 mA
Power consumption in sleep mode	< 0.3mA
Operating time (without sleep mode)	24h for a 400mAh battery
Operating time (without battery)	-40°C up to +85°C



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