

WWT – Wireless Weight Transmitter A/D Module

Features

- Very low power consumption for long battery life
- Powered by self contained batteries, remote power on/off
- OIML Approved A/D module $n_{max} \leq 5000 d$
- Max 100.000 internal counts
- Very high time & temperature stability
- Excitation to drive two 350 Ω load cells
- ZIG BEE^(TM) IEEE 802.15.4 communication
- Europe/USA licence free band @2.4 GHz
- 100 m indoor/urban max range
- 1500 m outdoor max range
- Industrial grade enclosures matching your needs
- Simple networking to PC and PLC interface
- WWT PC Monitor software available



Product Description

WWT weight transmitter module provides an efficient way to monitor multiple load cell inputs simultaneously with real-time communications to your information systems via a secure wireless network, based on ZIG BEE^(TM) IEEE 802.15.4 Specification.

Data acquisition and calibration can be initiated and managed independently from remote locations. The WWT serves as a central controller that combines advanced Analog-to-Digital (A/D) signal processing and superior wireless communication based on ZIG BEE^(TM) technologies into a single, industrial grade enclosure.

The license-free radio functions allow multiple networks of separate weighing systems, scales and peripheral devices. Wireless transmission of weight can be simply networked and communicated to PC and PLC interface.

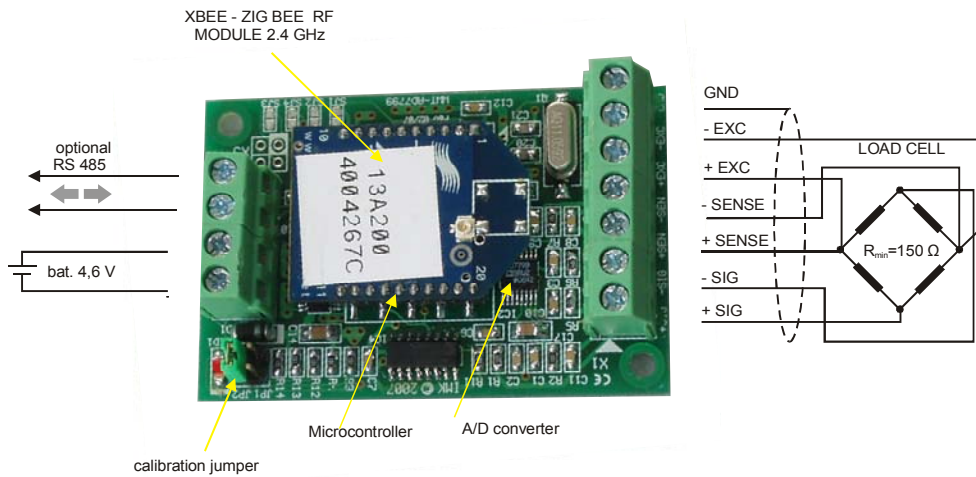
WWT Monitor software is available to enable your PC to act as a full-featured digital scale indicator with data logging and information publishing features.

WWT Specifications *

Accuracy class	OIML –Welmec 2.1.	$n_{max} \leq 5000 d$ - class (III) , $n_{max} \leq 1000 d$ - class (IIII)
Linearity		< 0.002 % FS
Excitation		3,3 V DC , load cell impedance from 150 Ω to 1000 Ω ; 4 or 6 wire
Analogue input range		$\pm 3,5$ mV/V , allowing mass and force measurements
Minimum input per VSI		0,6 μ V - legal for trade ; 0,1 μ V – non approved
Conversion rate		10 / sec (other rates on request)
Calibration		software calibration and setup via wireless communication from PC
Weighing functions		zero, filter, battery voltage monitor
Temperature range		operating / storage : -20°C to + 70°C OIML certified range: -10°C to + 40°C
PCB Dimensions		65 mm x 43 mm x 12 mm
Housing		metal IP65 with standard antenna; plastic housing with chip antenna
Power Input		3,8 – 6,0 VDC Battery or Internal AC/DC power supply
Radio Link		ZIG BEE ^(TM) IEEE 802.15.4 Specification module @ 2.4GHz 1 mW (low power) - 30 m indoors range, 18 mW (medium power) 50 m indoors range or 100 mW (high power) 100 m indoors range
Antenna		1/2 wave standard antenna or chip antenna
Power Consumption average		< 1 mW in sleep mode, 50 mW in low power , 200 mW high power mode
Options		RS 485 , nonisolated communication

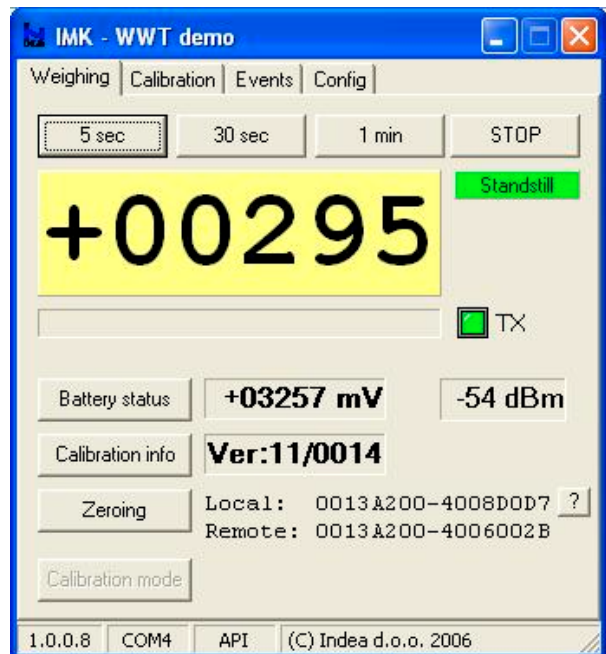
* Preliminary information, specifications are subject to change without notice!

WWT module connection scheme :



Suggested WWT module application:

- Crane scales
- Skip container weighing
- Mobile weighing systems
- Periodical weighing on remote locations
- etc...



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