ZIGBEE / BLUETOOTH TRANSCEIVER

ZB-TC

MAIN FEATURES

- Different variations available
- "On-chip" or external adjustable antenna
- Modular and flexible
- Communication distance up to 1 km with PRO version of XBee module
- Different communication protocols available
- Two units can be mounted in a single box, i.e. for double probe devices (optional ZB-TC II)
- Bluetooth version available

Example: ZB-TC I USB with external antenna

DESCRIPTION

The **ZB-TC** module is a ZigBee (WiFi) transceiver that can be used (in a pair) to communicate data from a probe to its reading unit.

Different versions are available, depending on the used components and the scope of the device. For example, a ZB-TC allows the communication with a MERCURY GMP probe + PS-ZB accessory or in general with a probe, installing a module at each end of the wireless bridge.
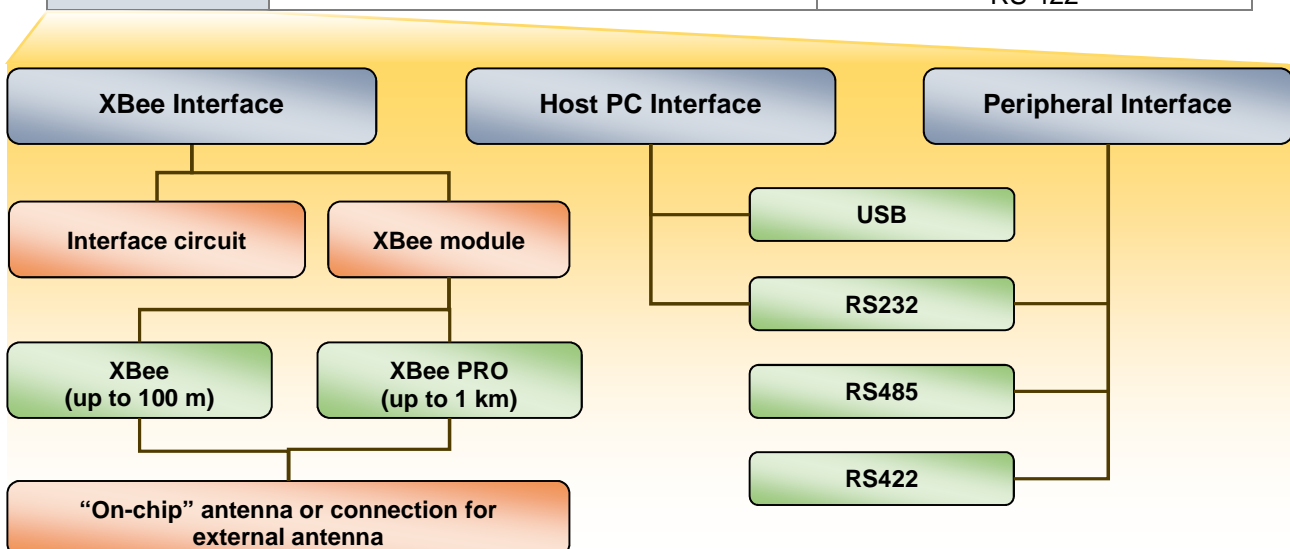
Optionally, it is possible to mount two modules in a single box (**ZB-TC II**), typically with trolley-mounted double probe devices (as an alternative to using a single module for each probe).
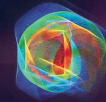
The **ZB-TC** module is composed of the main parts here listed:

- XBee Interface: wireless communication circuit where the XBee module is installed
- Host PC Interface: interface with the device (reading unit/probe) fitted for RS232 and USB
- Peripheral Interface: interface with the device (reading unit/probe) alternative to the previous one, fitted for RS485, RS 422 and RS232

GUIDE TO AVAILABLE VERSIONS AND SINGLE MODULE COMPOSITION

	Single or double module (optional)	Interface type
ZB-TC	I	USB RS 232
	II	RS 485 RS 422

SCHEMATIC EXAMPLES

Here are reported some examples that can help to better visualize what has been described.
The examples represent the more frequent cases, using images of specific instruments; the ZB-TC module can be used with: NAUSICAA series, ICP series, MERCURY GMP-WR, LUPIN series.
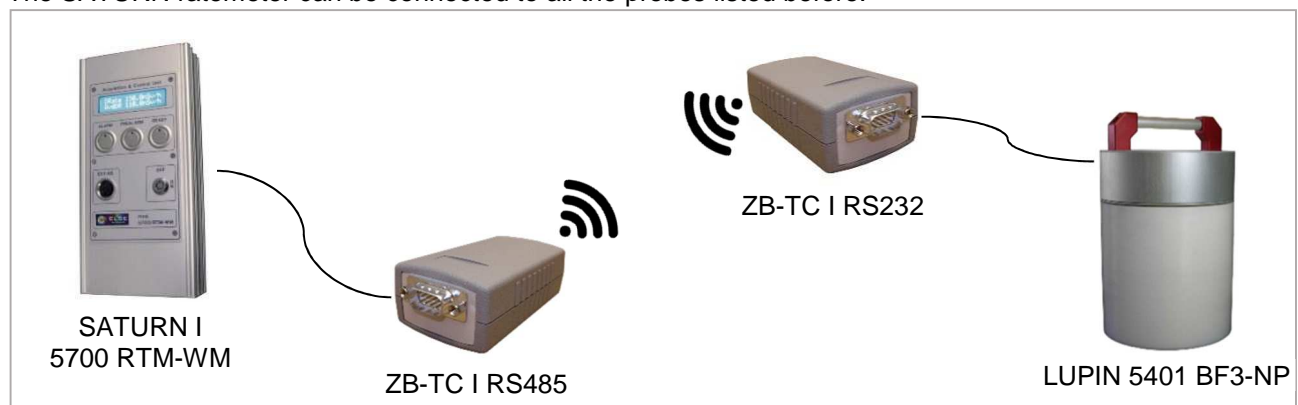
ZB-TC I: single module for wireless communication between PC and detector
With NAUSICAA and SATURN+probe, a direct connection with the PC is possible.

Host PC

ZB-TC I USB

ZB-TC I RS232

NAUSICAA 5301 IC

ZB-TC I: single module for wireless communication between ratemeter and detector
The SATURN ratemeter can be connected to all the probes listed before.

SATURN I
5700 RTM-WM

ZB-TC I RS485

ZB-TC I RS232

LUPIN 5401 BF3-NP

ZB-TC II: double module for wireless communication between double probe trolley and detectors
Double version for double probe trolleys with remote detectors.

SATURN 5702
(removable probes)

ZB-TC II RS485

ZB-TC I RS232

LUPIN 5401
HE3-NP

ICP

ZB-TC I RS232