

Long range UHF Ident System with intelligent abilities OIS-U



Applications

- Identification
- Decentralized storage of object and process data
- Localization of objects and persons
- Tracking and tracing
- Temperature logging for total quality control

Features

- Read-/Write range up to 100 m
- Simultaneous operation of 4 antennas
- Simultaneous communication with DT.Ax and DT.Bx tags
- Position determination with measurement of the signal strength
- Digital In- and relay outputs for process control

Options

- Integrated Power supply (-P)
- Extended temperature range (-X)
- Wireless LAN (-W)

The RFID System OIS-U active read/write system, which has been developed for modern logistic solutions under industrial conditions. Highest quality, long lifetime and reliability guarantee unimpaired processes.

The wireless communication using advanced UHF radio frequency technology on 868 MHz (Europe) or 915 MHz (USA) allows to transmit and receive data at distances of up to 100 m from either a stationary central unit or a handheld device. Temperature logging and localization are optionally available.

A new battery-saving technology allows communication distances up to 100 m with lowest transmission power. Sophisticated anti-collision algorithms can handle multi tag handling of up to 2'000 tags within the communication zone.



Stationary central unit CU.30

Tags for every use

Various tags are available for different applications. They differ in read-/write range, memory size and design of housing. An optional LED provides visual identification of an addressed object. The high data rate allows the identification of fast moving objects.



Standard design of the tag DT.Ax



Hook version of the tag DT.Ax



Tag DT.Bx in different designs

Pursuit in real time

Is the temperature quality determining? In this case you select the option "temperature logging" and log temperatures in freely assignable time intervals. These data can be queried wirelessly, e.g. by means of a handheld device.

Connection guaranteed

The benefit of this technology includes ease-of-use, seamless software integration with ODBC-based software integration. Fast Serial and Ethernet interfaces are standard. Other interfaces on request.



Connection board of the stationary central unit CU.30

Investment security

The components grow with the demands and offer maximum investment security. Handhold devices of the newest generation, equipped with PCMCIA cards, belong to the system.

Handheld devices



Smallest Handheld HH.10



Medium Handheld with large display HH.20



Robust handheld for industrial and outdoor applications HH.30

Technical data

Operating

Communication range	Up to 100 m in free air (Read/Write)
Operating frequency	868 MHz / 915 MHz (see option „Fx“)

Data storage

Data retention	> 10 years without power
Write cycles	100'000
Memory size	7'855 Byte user definable (DT.A0.Fx.08) 32'431 Byte user definable (DT.A0.Fx.32)
Identification	48 bit fixed ID

Electrical DT.Ax

Long life Lithium battery, with battery monitoring	
Battery lifetime	> 6 years with 600 times 128 bit readings/day

Mechanical DT.Ax

Size	131 × 28 × 21 mm
Weight	50 g
Material	plastic (ASA / Luran® 5)
Enclosure rating	IP65

Environmental DT.Ax

Temperature	-40 ... +70 °C (operating)
Shock	50 g, DIN IEC 68-2-27, multiple drops to concrete from 1 m
Vibration	3 g sine wave cycles, 5 ... 150 Hz, DIN IEC 6 5 g, 5 ... 1'000 Hz, 30 min, DIN IEC 68-2-64

Further information to be found on www.baumerident.com or contact one of our specialists in your country.