# OIS-P
# Heat-Resistant Data Tag PC3405/x8A

The 2 read and write data tags PC3405/x8A are a part of the OIS-P PC3400 series. This 8 kBytes heat resistant data tags are specifically designed for the automotive main line including the very demanding paintshop with its high temperature.

The electronics module is exclusively built with high-temperature components and high-temperature manufacturing technology. This ensures maximum communication reliability and product life.

The data tags are heat insulated and applicable for temperatures of up to 235 °C cyclic. They use an especially heat-resistant back-up battery. Due to the efficient thermal protection and the low power consumption the battery life will in most paint shop applications exceed 5 years.

The rugged design and excellent climatic resistance allows indoor as well as outdoor, stationary or mobile installation. Their compact design facilitates the use of one single data tag type throughout the entire main line.

The PC3405/x8A can operate together with a wide range of OIS-P communicators in the PC3100, PC3300 and PC3400 series to meet most application requirements.

- 8 kBytes read/write Data Tag
- Heat-Resistant Design for Automotive Paintshop
- Rugged Design for Rough Environment
- Operates with Every OIS-P Communicator
- Long Battery Lifetime: > 5 Years

## About the OIS-P Auto-ID System in General

**Communication Range**

Using appropriate antennas this data tag provides a communication range of up up to 10 m, as well as an excellent reading and writing capability with fast moving objects.

**Long Battery Lifetime**

The OIS-P technology maximizes the battery lifetime. The data tag is of a semi-active type, normally held in a passive state. Battery lifetime typically exceeds 5 years.

**Data Tags for Every Use**

A variety of data tags are available for various applications with memory sizes of up to 32 Kbytes. They differ in read/write range, memory sizes and housing designs.

**Fast Data Transfer Rate**
**Unlimited Memory Life**

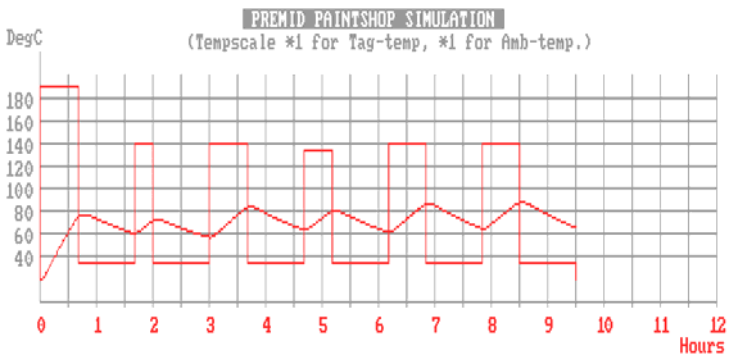
The RAM memory design allows an unlimited number of read-write cycles while enabling high data transmission rates. This also gives the opportunity for identification of fast moving objects. The user data is backed up by a lithium battery.

**Connection Guaranteed**

The central units and compact communicators are off-the-shelf available with several interfaces like Profibus and Ethernet. Other interfaces are available on request.

**Heat-Resistant Data Tags**

Heat-resistant data tags are applicable for temperatures up to 235 °C cyclic.




Example of simulation of inner data tag temperature

## IDENTEC SOLUTIONS

IDENTEC SOLUTIONS is a leading global supplier of innovative RFID systems (Radio Frequency Identification) with communication ranges of up to 100 metres.

With its unique Intelligent Long Range® (ILR®) technology, IDENTEC SOLUTIONS offers innovative and economical solutions for automated data gathering, identification, tracking, and localization of objects.

The OIS product range offers automatic identification systems of different technologies, suitable for operation in the rough environment as in industry and logistics while providing high reliability. OIS transponders are equipped with up to 32 kBytes of memory and can withstand up to 235 °C.

To learn more about how ILR and OIS technology can increase the efficiency of your business, contact IDENTEC SOLUTIONS or visit our website at www.identecsolutions.com.

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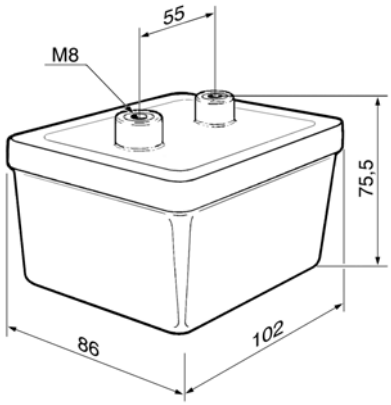
## Technical Data

### Operating Data

| | |
|---|---|
| Data rate PC3405/L8A | 75 bits/s read from data tag, 47 bits/s write to data tag, low speed, order code: 152 909 |
| Data rate PC3405/M8A | 66 kbits/s read from data tag, 42 kbits/s write to data tag, medium speed, order code: 152 910 |
| Data rate PC3405/HA | 267 kbits/s read from data tag, 166 kbits/s write to data tag, medium speed, order code: 152 911 |
| Memory | 8 kBytes RAM, depending on formatting max. 226 files |
| RAM memory life | unlimited number of read/write cycles |

### Mechanical Data

| | |
|---|---|
| Weight | 850 g |
| Casing | PPS, black |
| Mounting proposal | 2 screws M8, fasten with max. 10 Nm |
| Dimensioned drawing | All dimensions in mm, tolerance ±0,3 mm |




### Environmental Conditions

| | |
|---|---|
| Temperature range | Storage and operation +235 °C (intermittent), -25 °C to +85 °C (continuous) The data tag remains in function during the whole cycle. |
| Maximum cyclic load | 35 minutes in +200 °C and 45 minutes in +20 °C repeated. For more information on thermal stress and for application specific analysis, please consult IDENTEC SOLUTIONS. |
| Storage temperature | Preferably room temperature (+25 °C) or less |
| Protection class | IP 68, Ref: IEC 529 |
| Vibration (operating) | Sine: ±0,35 mm, 10 – 60 Hz; 5 g, 60 – 500 Hz in ±3 axes, 40 min/axis, Ref: IEC 68-2-6-Test Fc Random: 0,01 g²/Hz, 10 – 2000 Hz; in 3 axes, 3 hours/axis Ref: IEC 68-2-34 Test Fdb |
| Bump (survival) | 40 g, 6 ms half sine in ±3 axes × 4000, Ref: IEC 68-2-29 Test Eb |
| Shock (survival) | 50 g, 6 ms half sine in ±3 axes ×10, Ref: IEC 68-2-27 Test Ea |
| Drop | 300 mm free fall, 10 times on concrete floor, Ref: IEC 68-2-32 Test Ed |
| Waterproofness | 9.78 kPa × 2 h, Ref: IEC 68-2-17 Qf |
| CE conformity | OIS-P complies to the R & TTE guideline 99/5/EC (R &TTE: Radio and telecommunications terminal equipment) EMC: EU Guideline 89/336 EWG ESD: EN 61000-4-2 RF Immunity: EN 61000-4-3 |