



FACTORY AUTOMATION

IDENT CONTROL

INNOVATIVE, FLEXIBLE, PRACTICAL

IDENT *Control*



SYSTEM DESCRIPTION

The name **IDENT Control** stands for an innovative identification system with outstanding functionality. The **IDENT Control** family of products includes the **IDENT Control** interface supporting the most common bus systems connections, inductive read/write heads (125 kHz), a microwave antenna (2.45 GHz), and the appropriate code or data carriers ("tags"). With IP65 protection, the system is well-suited to mounting in either an enclosure or directly in the field. Interfacing with higher level fieldbus systems is simplified with integrated bus connectors. This ensures simple installation and makes it easy to replace the device quickly and without bus interruptions in the event of a malfunction. Using strict EMC design concepts (metal housing, grounding conductor, shielded cables, etc.), the system's noise immunity meets or exceeds current standards. Parameter assignment and command input are possible either directly on the **IDENT Control** via function keys or with the IDENT 2005 parameter assignment software.

HAND-HELD DEVICES FOR MOBILE SOLUTIONS

Mobile read/write devices based on a convenient Palm system are available to work with microwave data carriers. Inductive code and data carriers can be accessed using a Psion Workabout.

- Read/write/edit data
- Adjust operating modes
- Define data fields

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INDUCTIVE READ/WRITE HEADS

Many different designs, suitable for almost all applications, are available in M18, M30, and M36 square-shaped designs up to (80 x 80 x 60 mm) with read distances of up to 100 mm.



Advantages of iDENT Control

- Suitable for enclosure mounting using DIN rails and for field-mounted applications where IP65 protection is needed
- Up to 4 read/write heads can be connected
- Mixed operation of inductive heads and microwave antennas is possible
- Trigger sensors can be connected to start read/write commands
- 2-line LCD for data and device status
- Direct control via function keys
- No configuration software or external programming needed for bus node addressing
- On EtherNet enabled systems, a built-in Web server allows for advanced malfunction notification (e.g. via cell phone)
- The plug-in design means all components are easy to connect and can be replaced quickly



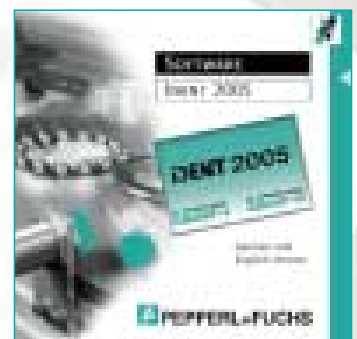
INDUCTIVE CODE/DATA CARRIERS

With 125 kHz code and data carriers, you can select from many different designs, from extremely small (3 x 3 x 15 mm glass tubes) to very large (transponder with \varnothing 78 mm). Data carriers are available for temperatures up to 300 °C in chemically resistant housings for installation in metal and in protection classes IP68/IP69K.

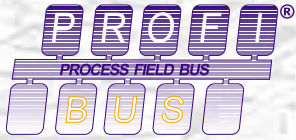
IDENT 2005 – DEMO- AND PARAMETER ASSIGNMENT SOFTWARE

This Windows-based software tool offers you the convenient option of adjusting device parameters or sending write/read commands. With this software, all system components can be accessed via an RS 232 interface.

IDENT 2005



INDUSTRIAL ETHERNET



Serial

DeviceNet™



FIELD BUS CONNECTION

IDENT Control offers integrated interfaces to the most commonly used field bus systems such as PROFIBUS, EtherNet and serial connections (RS 232/RS 485/RS 422). Interface connections to DeviceNet and Interbus are in development. Because all interface units share a similar command structure, the user interface is virtually universal, regardless of the bus system used. GSD (Device Master Data, German **Gerätestammdaten**) and EDS (Electronic Data Sheet) files are available.

WEB SERVER FUNCTIONALITY

An EtherNet connection often makes it possible to use existing networks. High transmission rates and new functions are possible. Intermediate bus systems become unnecessary. If desired, the web server functionality can even inform you directly via SMS on your service cell phone that a malfunction has just occurred in the system. For example, it can tell you which spare part is required, or what response is needed. This reduces down times and also makes it possible to assign parameters remotely with password protection, or with direct enabling on site.

MICROWAVE ANTENNA

Write and read distances of up to 4 m can be achieved with the microwave antenna (140 x 170 x 40) mm. The connection is implemented with a 4-pin M12 connector.

MICROWAVE DATA CARRIER

The industrial data carrier features protection class IP 67 and a storage capacity of 8 kByte. It has an encapsulated battery with a service life of approximately 8 years. A replaceable battery option is also available.



With enclosure and field-mounting options – **IDENT Control** is always the right choice



Enclosure Mounted



Field Mounted

Two mounting solutions allow **IDENT Control** to be used in an enclosure or field mount situation. **IDENT Control** is DIN rail mountable and features an L-shaped design that allows the device, including the bus connections, to fit into a 120 mm wide opening. The required installation depth is only 70 mm, which allows installation in 100 mm deep junction boxes. Three mounting holes allow the **IDENT Control** to be mounted in the field using M6 screws.

The connection concept – everything is plug-in



PROFIBUS/DeviceNet/Serial connection



PROFIBUS connection with Sub-D

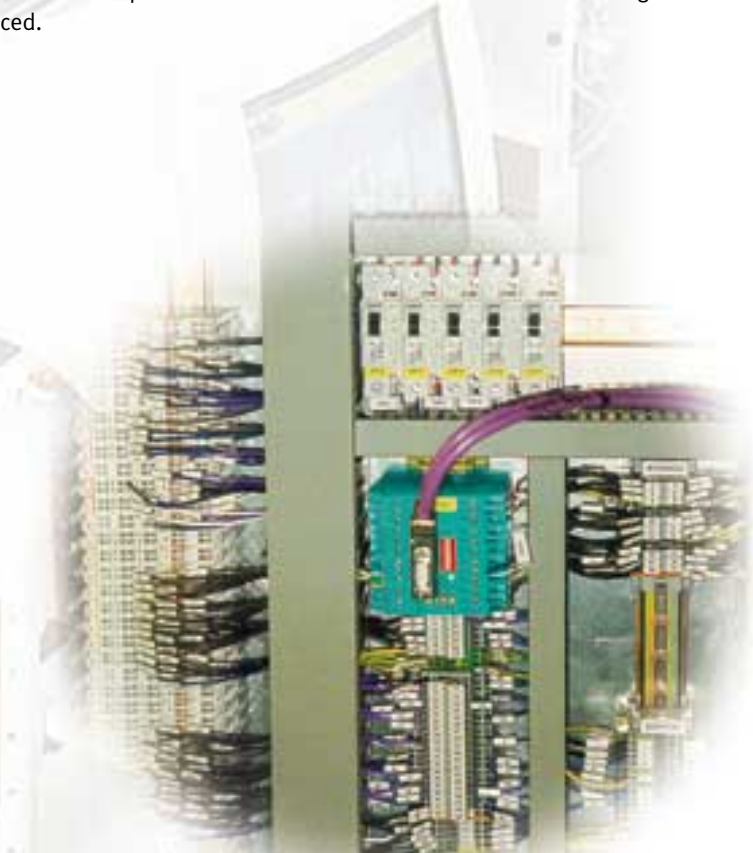


EtherNet connection



Interbus connection

Installation is flexible and system maintenance is simplified with standard quick disconnects. All read/write heads are installed using shielded M12 connectors. Depending on the bus system, M12, RJ45, Sub-D or M23 connections are used for easy wiring to the field bus. Using M12 junction “T” fittings or a daisy-chaining Sub-D plug ensures uninterrupted bus communication even if a device is being replaced.



PRODUCT OVERVIEW IDENT CONTROL SYSTEM

Order Code	Description
IC-KP-B6-V15B IC-KP-B12-V45 IC-KP-R2-V1 IC-KP-R4-V15B IC-KP-B7-V15 IC-KP-B5-V23 IC-KP-B6-SUB D	IDENT Control: Control interface unit for use in enclosures and field applications, 4 inductive read/write heads and microwave antennas can be connected using standard quick disconnects, display, direct operation, trigger function via sensors, dimensions (145 x 110 x 70) mm (L x B x H), interfacing with standard industrial bus systems B6: PROFIBUS, B12: EtherNet, R2: serial RS 232, R4: serial RS 485 addressable, B7: DeviceNet, B5: Interbus
IPH-18GM-V1 IPH-30GM-V1 IPH-F61-V1 IPH-L2-V1 IPH-FP-V1	Inductive read/write heads, 125 kHz, with dual-purpose power (green) and read/write (amber) LED, protection class IP67, construction types M18, M30, F61 (28 x 77 x 12) mm, L2 (40 x 55 x 40) mm and FP (80 x 80 x 60) mm with M12-connector (4-pin, shielded)
MVH2000-F15-V1	Microwave antenna, 2.45 GHz, with power (green) and communication (amber) LEDs, up to 4 m read/write distance, protection class IP65, dimensions (140 x 170 x 40) mm, M12-connector (4-pin, shielded)
IPC02-20W IPC02-30W IPC02-50W	Inductive code carriers, 125 kHz, 40 bit fixcode and 24 bit data security, ROM, number of read cycles unlimited, protection class IP67, housing material: polycarbonate (PC)
IPC03-20W IPC03-30W IPC03-50W	Inductive data carriers, 125 kHz, 928 bit EEPROM memory and 32 bit ROM, number of read cycles unlimited, number of write cycles >100,000 per memory block, protection class IP67, housing material: polycarbonate (PC)
MVC-60-64K MVC-60-256K MVC-60B-64K	Microwave data carriers, 2.45 GHz, with storage capacity of 8 kByte or 32 kByte, with encapsulated or replaceable battery, protection class IP67, housing material: PBT, dimensions (90 x 60 x 19) mm
IPT-HH9	Hand-held device for inductive data carriers (125 kHz)
MVT-HH12	Hand-held device for microwave data carriers
V1-G-5M-PUR-ABG-V1-W V1-G-10M-PUR-ABG-V1-W	Shielded PUR M12 cordsets (with a length of 5 m or 10 m) for connection of read/write heads
V15B-G-5M-PUR-ABG-V15B-G V15B-G-10M-PUR-ABG-V15B-G	Shielded M12-extension cables (B coded) with a length of 5 m or 10 m for PROFIBUS connection (serial, addressable)
V1-G-5M-PUR-V1-G V1-G-10M-PUR-V1-G	M12-cordsets in 5 m or 10 m lengths for connection of power supply
ICZ-3T-V15B	Junction "T"s for PROFIBUS connection, allows the replacement of the devices without interrupting bus communication, cables internally bridged, shielded version
V45-G-10M-V45-G	Patch cable for connection of the EtherNet interface in IP20, 10 m
ICZ-V45	Sealing nut for patch cable connection, on the socket side IP67
IDENT 2005 CD-ROM	Demo- and parameter assignment software for the IDENT Control System

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