

**TECHNICAL DATA AND SPECIFICATIONS**

**IFD 3230**



Multipoint Connections



With a repeater function (antenna diversity) and an optional RFID transponder interface for individual/changing configurations and servicing. Unidirectional and bidirectional versions available.

|                        |  |
|------------------------|--|
| Range:                 | approx. 1,500 m in open spaces   |
| Power consumption:     | max. 320 mA  |
| Supply voltage:        | 12V/24V DC, 40-265 V AC optional   |
| Serial interface:      | RS232 or RS422/RS485<br>8 data bits, no parity, 1 stop bit<br>Interface assignment via software-switchable drivers |
| Frequency range:       | 400 MHz to 470 MHz (70 cm band)  |
| Channel separation:    | 20 KHz   |
| Transmission rate:     | 4800 bit/sec   |
| RF output:             | 300 mW to 50 Ohm,<br>optional low-power-device RF components   |
| Protection rating:     | IP 65  |
| Operating temperature: | -20°C to +60°C   |

**HST 100**



Point-to-Point Connections



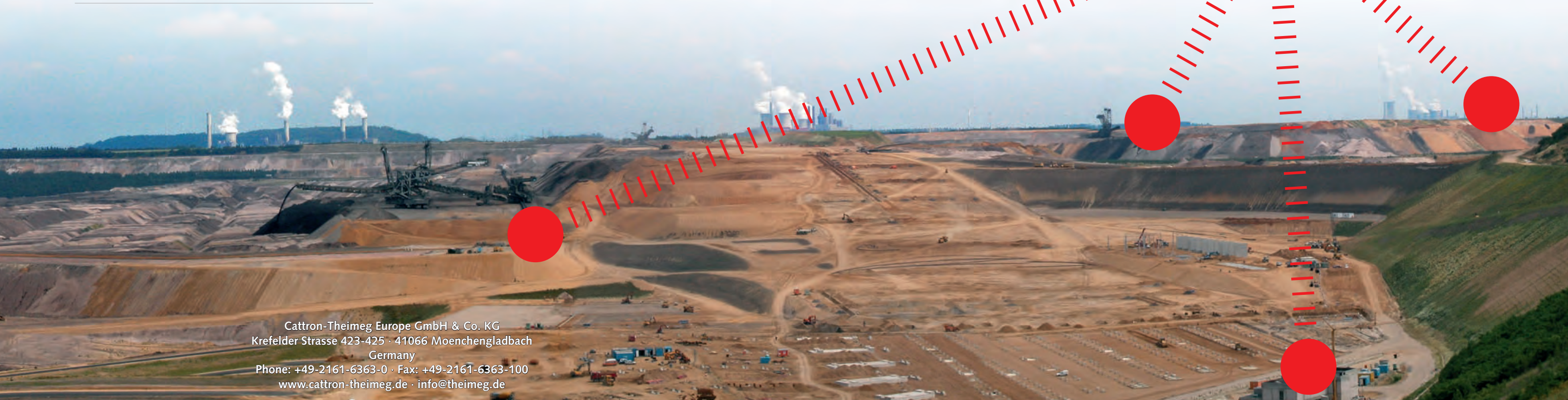
The robust high-speed radio modem for all applications requiring real-time data transmission. Unidirectional and bidirectional versions available.

|                        |   |
|------------------------|---|
| Range:                 | 500 m in open spaces  |
| Power consumption:     | 250 mA  |
| Supply voltage:        | 12V/24V DC  |
| Serial interface:      | RS232<br>8 data bits, any parity, 1 stop bit<br>1.2 kbaud - 115.2 kbaud |
| Frequency range:       | 2.4 GHz ISM band; DSSST   |
| Channels:              | 58 (2.413 - 2.470 GHz)  |
| Transmission rate:     | 1.84 Mbit/sec   |
| RF output:             | 100 mW  |
| Protection rating:     | IP 65   |
| Operating temperature: | -20°C to +60°C  |

Wireless data transmission systems for control and monitoring of process control installations

Application Areas:

- Mining (incl. open cast)
- Waterworks and Electricity Plants
- Power Stations
- Sluices
- Conveyor Belts
- Refineries
- Chemical Plants
- Coking Plants
- Metal Processing and Finishing
- Rail Traffic and Marshalling Yards
- and many more



Cattron-Theimeg Europe GmbH & Co. KG  
 Krefelder Strasse 423-425 · 41066 Moenchengladbach  
 Germany  
 Phone: +49-2161-6363-0 · Fax: +49-2161-6363-100  
 www.cattron-theimeg.de · info@theimeg.de

# DataCom

In process control systems it is often necessary to query and analyse sensor or status data over large distances. Classic data transmission via cables, however, involves considerable costs since the route is often too long and/or inaccessible. The Cattron-Theimeg wireless data systems obviate the need for expensive cable installations and the associated maintenance costs.

Wireless data systems are of particular advantage where industrial plants are not tied to a specific location, e.g. in open cast mining. Due to the continually changing topology of the terrain, data transmission by cable can seldom be implemented economically.

These systems also offer an effective solution in vehicles, e.g. in locomotives in shunting yards where status data is transmitted for speed control purposes from the signal box to the driver.



## IFD 3230



Multipoint connection, bidirectional or unidirectional

The IFD 3230 intelligent radio data transmission system is designed for point-to-point or point-to-multipoint applications.

The IFD 3230 consists of a stationary module and up to 15 mobile terminals. And the repeater function allows the range of 1500 m to be extended to many times that distance.

## HST 100



Point-to-point connection, bidirectional or unidirectional

The HST 100 high-speed radio modem allows for simple and fast connection of individual terminal devices of any architecture to serial interfaces in locations where a cable connection cannot be made or only with extreme difficulty.

The HST 100 unit consists of 2 radio modems which allow real-time data transmission.

Cattron-Theimeg wireless data systems are self-contained industrial radio data transmission paths which require no external infrastructure. The open software architecture, however, means that they can be integrated into all applications.

The individual wireless data modems have a range of up to approx. 1,500 m in open spaces. They are also equipped with a repeater function which allows almost unlimited extension of the length of the transmission path.

