

Wireless Call Systems



Get your machines in view - with KombiSIGN reflect

Do you want

- to monitor machines that are out of view?
- to improve the productivity and efficiency of your machines?
- to react quickly and safely in the event of malfunctions?
- to save costs?

Then WERMA has the solution for you!

Signal tower „reflection“

WERMA Signaltechnik provides a simple solution for the remote wireless monitoring of machinery.

KombiSIGN reflect **“reflects” the status of the machine** to a signal tower within your line of sight. This enables you to wirelessly monitor machines situated at a greater distance and respond quickly to malfunctions. With KombiSIGN reflect, even machines which were not previously network-capable can now be remotely monitored.

KombiSIGN reflect is available for the WERMA KombiSIGN 70 and 71 signal tower ranges. The kit consists of two elements that transmit and receive the data via wireless signal (**slave/transmitter and master/receiver**).

*  slave and master  transmitter and receiver



KombiSIGN reflect consists of
a slave/transmitter and a master/receiver

KombiSIGN reflect: Simple „plug & play“ integration

The two KombiSIGN reflect elements are synchronised and **ready for immediate operation**. The signal towers located on the machines can simply be fitted with the KombiSIGN reflect slave/transmitter. A second identical signal tower, which you have previously selected from WERMA's KombiSIGN product range, is fitted with the KombiSIGN reflect master/receiver and placed within view.

The status of the first tower is then **immediately transmitted** to the second tower, where it is reflected one-to-one.

The system uses the **868 MHz (EU) or 915 MHz (North America)** frequency band and has a transmission range of up to 300 m (unobstructed line of sight). The indoor range may be less depending on the characteristics of the building.



The slave/transmitter sends the status directly to the master/receiver, and reflects the status of the signal tower installed on the machine

- Simple monitoring of signal towers out of view
- Signal tower "reflection" to a central location
- No additional wiring costs
- Simple commissioning due to pre-configured modules

i TECHNICAL SPECIFICATIONS:

Slave / Transmitter

Dimensions (Ø x Height):	70 mm x 65.5 mm
Housing:	PC, black
Connection:	Bayonet
Operating voltage:	24 V AC/DC
Current consumption:	40 mA

Master / Receiver

Dimensions (Ø x Height):	70 mm x 65.5 mm (without antenna)
Housing:	PC, black
Connection:	Bayonet
Operating voltage:	24 V DC
Current consumption:	40-900 mA

Wireless connection ISM frequency:

	868 MHz (KombiSIGN reflect conforms to the EU's EN 300220 harmonised standard and can thus be used in all EU member countries).		915 MHz (only for use in North America)
--	---------------------------------------------------------------------------------------------------------------------------------	--	-----------------------------------------

Further countries upon request

Transmission range: Up to 300 m (unobstructed line of sight)

ORDER SPECIFICATIONS:

KombiSIGN 70 reflect	861 840 01	861 840 02
KombiSIGN 71 reflect	861 640 01	861 640 02

! ADDITIONAL INFORMATION:

Please check the wireless frequency. In Europe the version with 868 MHz is used. In North America the version with 915 MHz is used. Please enquire about use in other countries.

TECHNICAL DIAGRAMS:

see page 324



Simple monitoring of signal towers out of view



Simply fit the KombiSIGN reflect slave/transmitter to the signal tower on the machine

			861 X40 02 receiver: class 2	See note on page 347	861 640 0X	861 840 0X		PLC