

## Your benefits

AndonSPEED optimises your processes in logistics workstation applications - because AndonSPEED provides a visual notification of where problems have arisen. Permanent time savings are possible because of quick fault repairs. The wireless network sends signals from the workstation to the central control station and can send an email notification if required.

- Rapid assistance reduces waiting times
- Reduces response times and prevents shutdowns
- Quick fault repair for more "units per hour"
- Intelligent reporting for lasting improvements
- Optimisation potential is made transparent

## Typical applications

- Report stoppages on conveyors chutes or conveyor belts
- Manage the supply of materials to packaging stations
- Report missing items in the despatch area
- Call-for-action at logistics workstation, e.g. inspection or engineering.

## Initial startup

- Install software
- Connect and configure receiver on the computer
- Connect and configure transmitter on the computer
- Integrate signal transmitter into signal tower (no tools necessary)
- Connect Andon SmartBOX

## Features

- Robust, proven wireless network for production environments
- Licence fee-free software is included
- Integrated analytics and reporting tools
- Ability to implement a head-of-line function, for example, with slave control

## Free test kit























Discover the optimisation potential in your company. Order your free test box today. It contains everything you need for one workstation, including a full version of the software. Easy refund of the testbox as a return within 30 days. **This offer may not be available in all markets.**

[www.werma.com/andonspeed](http://www.werma.com/andonspeed)





## This is how you put together your AndonSPEED system

ANDON PRODUCT			
Base mounting			
	AndonCONTROL Order no. <b>860 640 07</b>		
Aluminium profile mounting/Wall mounting			
	Andon SmartBOX incl. Power Supply Order no. <b>860 000 09</b>		
Wireless Networking			
Transmitter	 WIN slave Order no. <b>860 640 02</b>	 WIN transmitter Order no. <b>860 640 05</b>	
Receiver	 WIN ethernet master Order no. <b>860 000 06</b>	 WIN ethernet receiver Order no. <b>860 000 07</b>	
SIGNAL TOWER			
SIGNAL ELEMENTS (UP TO A MAXIMUM OF 4)		PRE-CONFIGURED SIGNAL TOWER	
		Base mounting	Tube mounting
	Buzzer Order no. <b>645 800 75</b>		LED Permanent light blue Order no. <b>644 500 75</b>
	2 tone siren Order no. <b>645 870 75</b>		TwinLIGHT red Order no. <b>647 110 75</b>
	LED Permanent light red Order no. <b>644 100 75</b>		TwinLIGHT yellow Order no. <b>647 310 75</b>
	LED Permanent light green Order no. <b>644 200 75</b>		TwinLIGHT green Order no. <b>647 210 75</b>
	LED Permanent light yellow Order no. <b>644 300 75</b>		TwinLIGHT clear Order no. <b>647 430 75</b>
	LED Permanent light clear Order no. <b>644 400 75</b>		TwinLIGHT blue Order no. <b>647 510 75</b>
Base mounting		Tube mounting	
			
Terminal element Order no. <b>640 800 00</b>		Terminal element + Base with integrated tube Order no. <b>640 810 00 + 975 840 10</b>	
			
Terminal element + Bracket for base mounting Order no. <b>640 800 00 + 960 000 02</b>		Terminal element + Bracket for base mounting Order no. <b>640 800 00 + 960 000 02</b>	





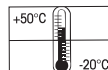
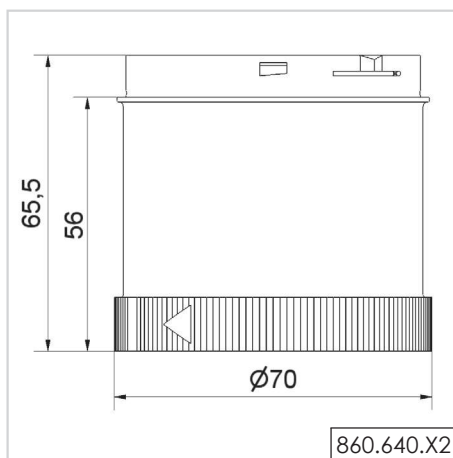


Expandable at any time: With additional "WIN slaves" up to 50 machines can be integrated into the network

**① TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:**

	WIN slave	WIN slave performance	WIN slave control
Dimensions (Ø x Height):	70 mm x 66 mm	70 mm x 66 mm	70 mm x 66 mm
Housing:	PC, black	PC, black	PC, black
Function:	Status monitoring	Status monitoring + Counting	Switching + controlling
Counter input:	-	Max. 10 Hz	-
Max. current output continuous:	-	-	750 mA
Peak current output 10 ms:	-	-	3.6 A
Min. current:	-	-	0.1 mA
Max. current per tier:	-	-	250 mA
Wireless connection ISM frequency:	868 MHz (WIN conforms to the EU's EN 300220 harmonised standard and can thus be used in all EU member countries.) Further countries upon request		
Transmission range:	Up to 300 m (unobstructed line of sight) Every transmitter simultaneously functions as a "repeater", enabling the transmission range to be significantly increased.		
Operating voltage:	24 V AC/DC	24 V AC/DC	24 V AC/DC
Current consumption:	40 mA, max. 430 mA	40 mA, max. 430 mA	70 mA, max. 2 A
Order no.:	<b>860 640 02</b>	<b>860 640 12</b>	<b>860 640 22</b>

↔ **TECHNICAL DIAGRAMS:**







## WIN Receiver for KombiSIGN 72 and 71

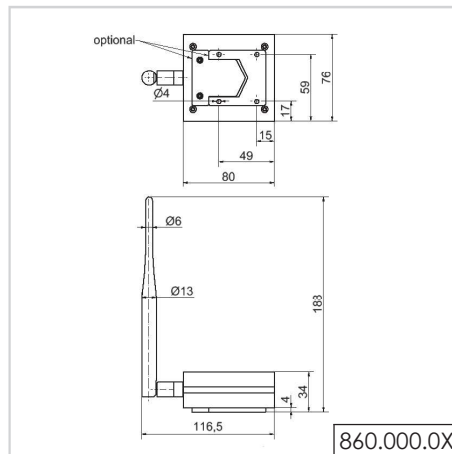


The software package allows you to monitor a production area or individual workstations from the comfort of the PC

### ① TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:

	<b>WIN ethernet master</b>
Dimensions (L x H x W):	76 mm x 30 mm x 80 mm (without antenna)
Housing:	ABS, black
Function:	Data collection
Connection data transmission:	RJ45 Ethernet (10Base-T/100Base-TX IEEE 802.3 compliant)
Connection configurator:	Via USB
Wireless connection ISM frequency:	868 MHz (WIN conforms to the EU's EN 300220 harmonised standard and can thus be used in all EU member countries.) Further countries upon request
Suitable for:	Windows®, System requirements - see Handbook
Assembly:	Receiver, USB power supply, Ethernet Cable (3 m), Software, Adapter supplied (EU, UK, North America)
Operating voltage:	Via Power supply (115-230 V AC, 50-60-Hz)
Peak current output:	2.1 A
Max. power output:	10.5 W
Current consumption:	< 160 mA (max. 800 mA)
Order no.:	<b>860 000 06</b>

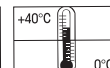
### ↔ TECHNICAL DIAGRAMS:



860 000 00



860 000 06



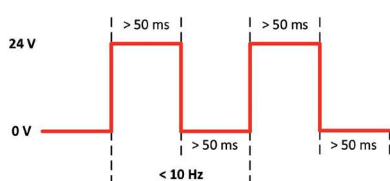




# WIN Transmitter for KombiSIGN 72 and 71



WIN transmitter,  
WIN transmitter performance and  
WIN transmitter control



The counter impulse of the  
WIN transmitter performance  
is max. 10 Hz

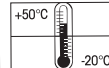
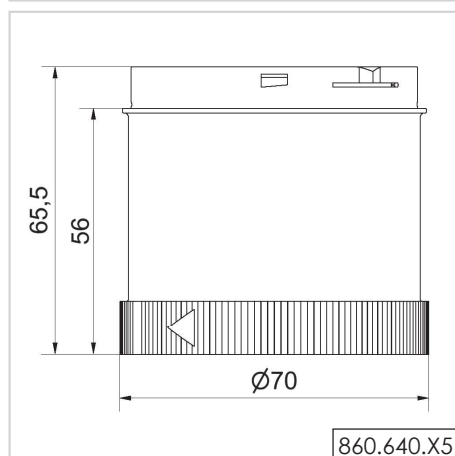


Expandable at any time: With  
additional "WIN transmitter"  
up to 50 machines can be  
integrated into the network

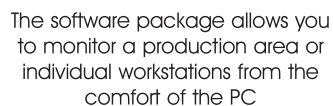
## ① TECHNICAL SPECIFICATIONS/ORDER SPECIFICATIONS:

	WIN transmitter	WIN transmitter performance	WIN transmitter control
Dimensions (Ø x Height):	70 mm x 66 mm	70 mm x 66 mm	70 mm x 66 mm
Housing:	PC, black	PC, black	PC, black
Function:	Status monitoring	Status monitoring + Counting	Switching + controlling
Counter input:	-	Max. 10 Hz	-
Max. current output continuous:	-	-	750 mA
Peak current output 10 ms:	-	-	3.6 A
Min. current:	-	-	0.1 mA
Max. current per tier:	-	-	250 mA
Wireless connection ISM frequency:	915 MHz (WIN conforms to the EU's EN 300220 harmonised standard and can thus be used in all EU member countries.) Further countries upon request		
Transmission range:	Up to 300 m (unobstructed line of sight) Every transmitter simultaneously functions as a "repeater", enabling the transmission range to be significantly increased.		
Operating voltage:	24 V AC/DC	24 V AC/DC	24 V AC/DC
Current consumption:	40 mA, max. 430 mA	40 mA, max. 430 mA	70 mA, max. 2 A
Order no.:	<b>860 640 05</b>	<b>860 640 15</b>	<b>860 640 25</b>

## ↔ TECHNICAL DIAGRAMS:







	<b>WIN ethernet receiver</b>
Dimensions (L x H x W):	76 mm x 30 mm x 80 mm (without antenna)
Housing:	ABS, black
Function:	Data collection
Connetion data transmission:	RJ45 Ethernet (10Base-T/100Base-TX IEEE 802.3 compliant)
Connection configurator:	Via USB
Wireless connection	915 MHz (only for use in North America)
ISM frequency:	Further countries upon request
Suitable for:	Windows®, Sytem requirements - see Handbook
Assembly:	Receiver, USB power supply, Ethernet Cable (3 m), Software, Adapter supplied (EU, UK, North America)
Operating voltage:	Via Power supply (115-230 V AC, 50-60-Hz)
Peak current output:	2.1 A
Max. power output:	10.5 W
Current consumption:	< 160 mA (max. 800 mA)
Order no.:	<b>860 000 07</b>

Technical drawing of the 860.640.X60 bracket, showing two views with dimensions in mm.

**Top View:**

- Overall width: 80
- Overall height: 76
- Distance from left edge to center of mounting hole: 49
- Distance from bottom edge to center of mounting hole: 15
- Distance between mounting holes: 59
- Distance from right edge to center of mounting hole: 17
- Mounting hole diameter:  $\varnothing 4$
- An "optional" feature is indicated by a dashed line and a circle with a cross, showing a hole at the top left corner.

**Side View:**

- Overall height: 188
- Top flange diameter:  $\varnothing 6$
- Main body diameter:  $\varnothing 13$
- Base flange diameter: 4
- Base flange thickness: 34
- Base flange width: 116.5





## INTUITIVE AND CLEAR – THE WIN SOFTWARE

The **software supplied with the system** is easy to install and leads the user through a series of steps to establish an individual network. It displays the status condition of signal lights installed in the system, enables the user to **analyse runtimes, identify causes of disruption** in operations and therefore **improve efficiency**.

### TECHNICAL DETAILS

Suitable for:	Windows®, System requirements – see Handbook
Language:	German, English, French, Chinese and Polish
Included in the delivery with the items:	<b>860 000 00, 860 000 01, 860 000 06, 860 000 07</b>

### KEEP UP TO DATE WITH CHANGES MESSAGING SERVICE

React quickly regardless of your current location. If the status of a machine or workstation changes an Email can be automatically sent to a PC or Smartphone of the person responsible. You can select to whom and after which time interval of the status change the Email is to be sent.





## EASY TO CREATE REPORTS AND EXPORT FUNCTION

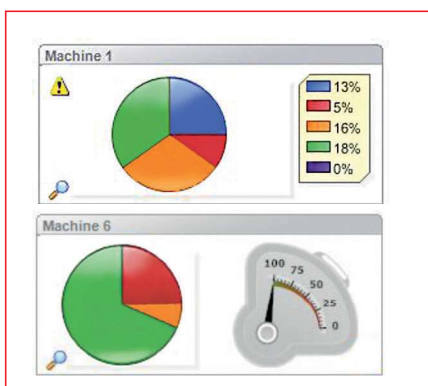
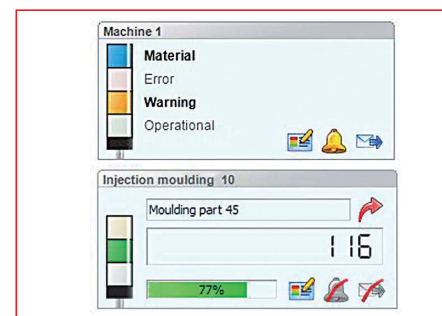
The user-friendly report function in the Control Station, Productivity, Run time and Job modules offers the possibility of converting all existing data into individual reports (in tabular and/or graphical form). The report can then be individually amended, printed out, and be saved in various data formats (pdf, HTML, Excel, CSV, jpg).

## INCLUDE A RANGE OF USERS MULTIPLE OPERATOR ACCESS

The software uses a structure based on a database and can be used by any number of users. The database needs to be installed on a shared drive on your network to allow multiple users access to the system.

## REACT QUICKLY CONTROL STATION

The Control Station shows you the operating condition of all machines or workstations being monitored so you can quickly see if a machine is in an error condition or running normally, or monitor which order is being worked on and the status of that order. This module helps you to quickly take action to reduce downtime.



## INCREASE EFFICIENCY PRODUCTIVITY MODULE

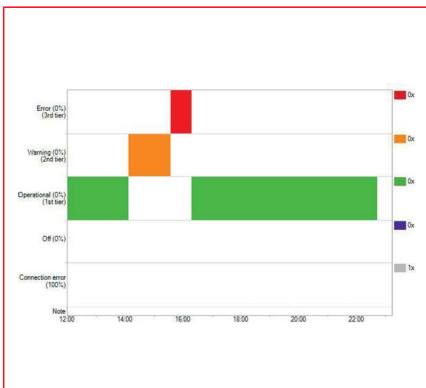
Using the Productivity Module you can check the productivity of your machines and workstations over any time period. You can look for example at the last working day, or define specific time periods such as shift patterns. Using this module it is possible to retrospectively analyse downtime and fault conditions and thus help improve efficiency in the future.





## UPTIME / DOWNTIME TOTAL PRODUCTIVITY OVERVIEW

Define the productive and non-productive statuses of the machine. The Productivity Module then enables you to analyse the real productivity of a machine, groups of machines or the complete workshop.

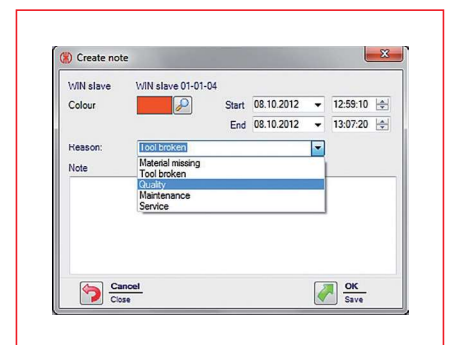


## OBTAIN TRANSPARENCY RUNTIME MODULE

The Runtime Module enables you to check the operation and down-times of your machines or workstations. This allows you to compare several machines with one another in order to detect and eliminate errors that affect the production process. This leads to sustainable process improvements.

## DOCUMENT PROBLEMS ERROR ANALYSIS

Identify, comment and analyse the fault conditions. First of all define the most common reasons for fault status occurring, for example material shortage. It is then possible to retrospectively analyse the frequency and length of the fault conditions and ensure that the cause can be eliminated.





Description	Status	Fulfillment level
Part 21	Completed	100%
Part 78	Completed	100%
Part 43	Completed	100%
Part 500	Completed	108%
Moulding part P20123	Completed	100%
Tool 556	Running	39%
Tool 25	Running	49%
Part 677	Waiting	0%
Part 322	Waiting	0%
Part 456	Waiting	0%

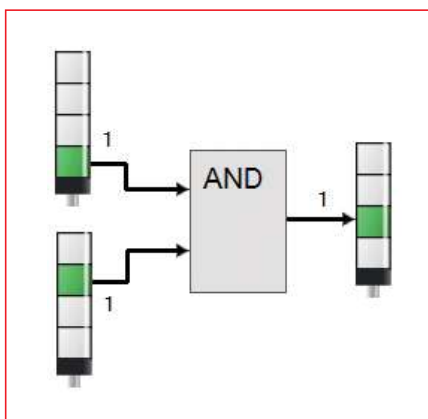
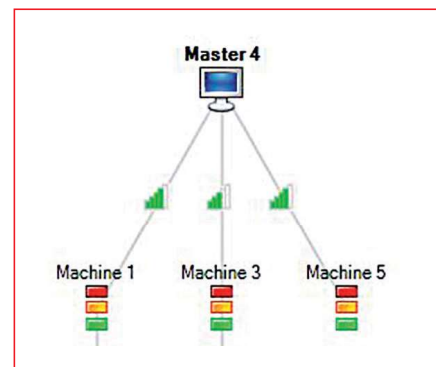
## OVERVIEW OF JOBS BEING RUN

The module gives you a comprehensive overview of which job is running on which machine and how the job is progressing.

## STABILITY OF THE NETWORK ROUTING MODULE

All transmitters automatically form a network. The Routing Module assists in setting up or adjusting the best network for WIN.

The route network graphic shows the current set up of the WIN network and the signal strength of each "WIN slave/transmitter" or WIN slave performance/transmitter performance" and mainly serves diagnostic purposes.



## CONTROL AND SWITCH "CONTROL" MODULE

Define simple logic rules in the "control" module to link the statuses of all connected signal towers and transmit them on to the "WIN slave control" hardware.

This allows you to implement a head-of-line function, for example, or to switch devices on and off.