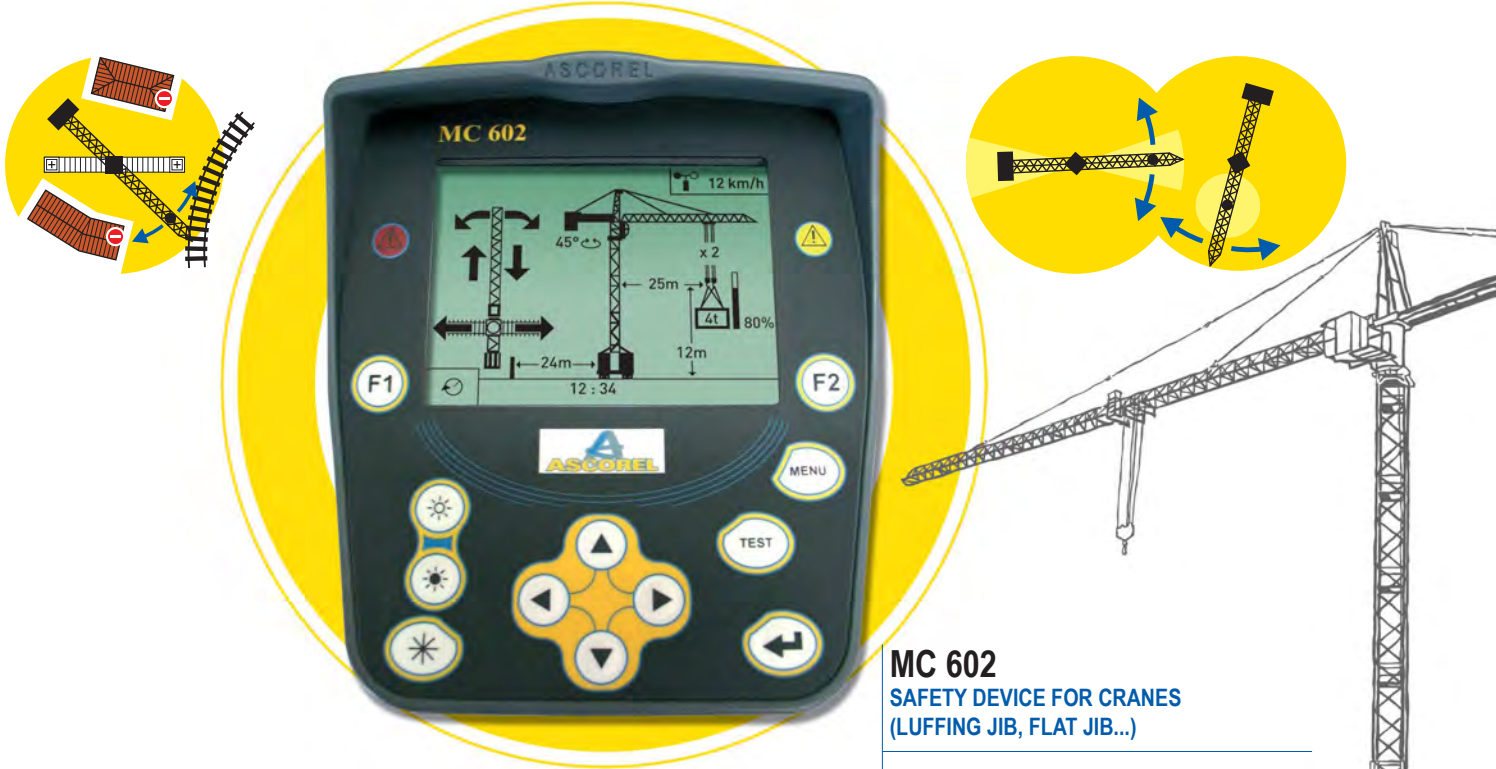


MC 602

OVERFLYING AND ANTI-COLLISION



MC 602 SAFETY DEVICE FOR CRANES (LUFFING JIB, FLAT JIB...)

The MC 602 is an anti-collision/zoning system designed to prevent cranes from flying over forbidden areas or running into on another, when multiple cranes are present on one site.

WHY CHOOSE ASCOREL?

- WE HAVE EXPERIENCE: we've been involved with safe load indicators since our creation in 1988 and we've used this wealth of experience to continually improve our anti-collision and zoning systems.
- ASCOREL IS ISO 9001 CERTIFIED. That means that ASCOREL has established and applied quality management systems for designing, developing, manufacturing, installing and servicing our systems that are internationally recognized.
- ASCOREL has been in compliance with the EN 14439 European Norm for 2 years already.
- ASCOREL is FULLY COMMITTED TO THE WORLD MARKET. We have distributors and subsidiaries that are committed to provide you with the best service possible.
- ASCOREL SYSTEMS ARE USER FRIENDLY. We take pride in providing the operator of the crane a system that is easy to use and that will make his job easier and safer. We train operators quickly and easily, no matter what language they speak.

WHY USE THE MC 602?

- A Supervisor software is available to remotely monitor cranes in real time over the internet for a specific job site.
- This device can be offered directly to cranes manufacturers to be installed on new machines or installed as a retrofit system. It can be installed on any brand of cranes.
- Zoning Monitoring - 10 zones of 16 points each
- Anti-collision monitoring - up to 16 interfering cranes for instance. You are able to see your crane as well as the other cranes that are interfering with yours right on your screen.
- No need to use an external programming device. Our system can communicate in a minimum of 7 different languages.
- Load, hook height, trolley, slewing, travelling (option), wind speed (option) are available in real time.
- A second display is available (option) for the control and use of the system from the bottom of the crane. No need to climb up the cabin to make some changes which results in gains of time.

DISPLAY AND FUNCTIONALITIES

MC 602 CRANE STATUS SCREEN

ARROWS INDICATE MOVEMENT STATUS
(slow down or cut off + movement of trolley)

ALARM

TAKES YOU TO "ZONE" SCREEN
(see your crane and all forbidden zones)

DISTANCE FROM STARTING POINT
(only if crane on rails)

TIME

RADIUS (distance between hook and tower)



JIB ORIENTATION

WIND SPEED

NUMBER OF CABLES

PRE ALARM

PERCENTAGE OF CURRENT WEIGHT ON HOOK COMPARED TO MAXIMUM WEIGHT

WEIGHT ON HOOK

TAKES YOU TO "SUPERVISEUR" SCREEN
(see all interfering cranes move in real time)

HOOK HEIGHT

MC 602 ANTICOLLISION AND ZONING SCREEN

ARROWS INDICATE MOVEMENT STATUS
(slow down or cut off + movement of trolley)

TAKES YOU TO "CRANE STATUS" SCREEN
(see your crane's information)

JIB ORIENTATION

HOOK HEIGHT



FORBIDDEN ZONES

INTERFERING CRANES

TAKES YOU TO "TABLE" SCREEN
(see all cranes on worksite status)

DISTANCE FROM STARTING POINT
(only if crane on rails)

MAIN FUNCTIONALITIES

MC 602

CRANE ANTI-COLLISION MONITORING: UP TO 16 INTERFERING CRANES

The system will optimize the job for the crane operator by helping him to work safer. It will help him avoid colliding with interfering cranes.

✓

ZONING MONITORING

This option is used to prevent the crane from flying over 'forbidden' areas such as: electricity lines, motorways, bridges or any other obstacles.

✓

GRAPHIC DISPLAY OF FORBIDDEN AREAS AND INTERFERING CRANES IN REAL TIME

The crane operator is able to visualize his crane as well as the environment around him (forbidden areas and other cranes)

✓

CALIBRATION DONE DIRECTLY ON THE HEAD UNIT

No extra tools necessary

✓

SECONDARY DISPLAY AVAILABLE FOR CONTROL AND USE OF THE SYSTEM FROM THE BOTTOM OF THE CRANE

No need to climb up the crane to make some changes and advantageous in case of repair

✓

COMMUNICATION BETWEEN CRANES IS DONE WIRELESSLY (RADIO TRANSMISSION) OR BY WIRE

Possibility to be done both ways

✓

BLACK BOX CAN BE ACTIVATED TO RECORD DATA

Both permanent and non permanent data can be recorded

✓

THE SYSTEM CAN BE OVERRIDDEN BUT THE INFORMATION IS RECORDED AND SHOWN IN THE SYSTEM

Override (bypass) detection

✓

LOAD, HOOK HEIGHT, TROLLEY, SLEWING, TRAVELLING (OPTION), WIND SPEED (OPTION) ARE AVAILABLE IN REAL TIME

Maximum safety with all information available in real time

✓

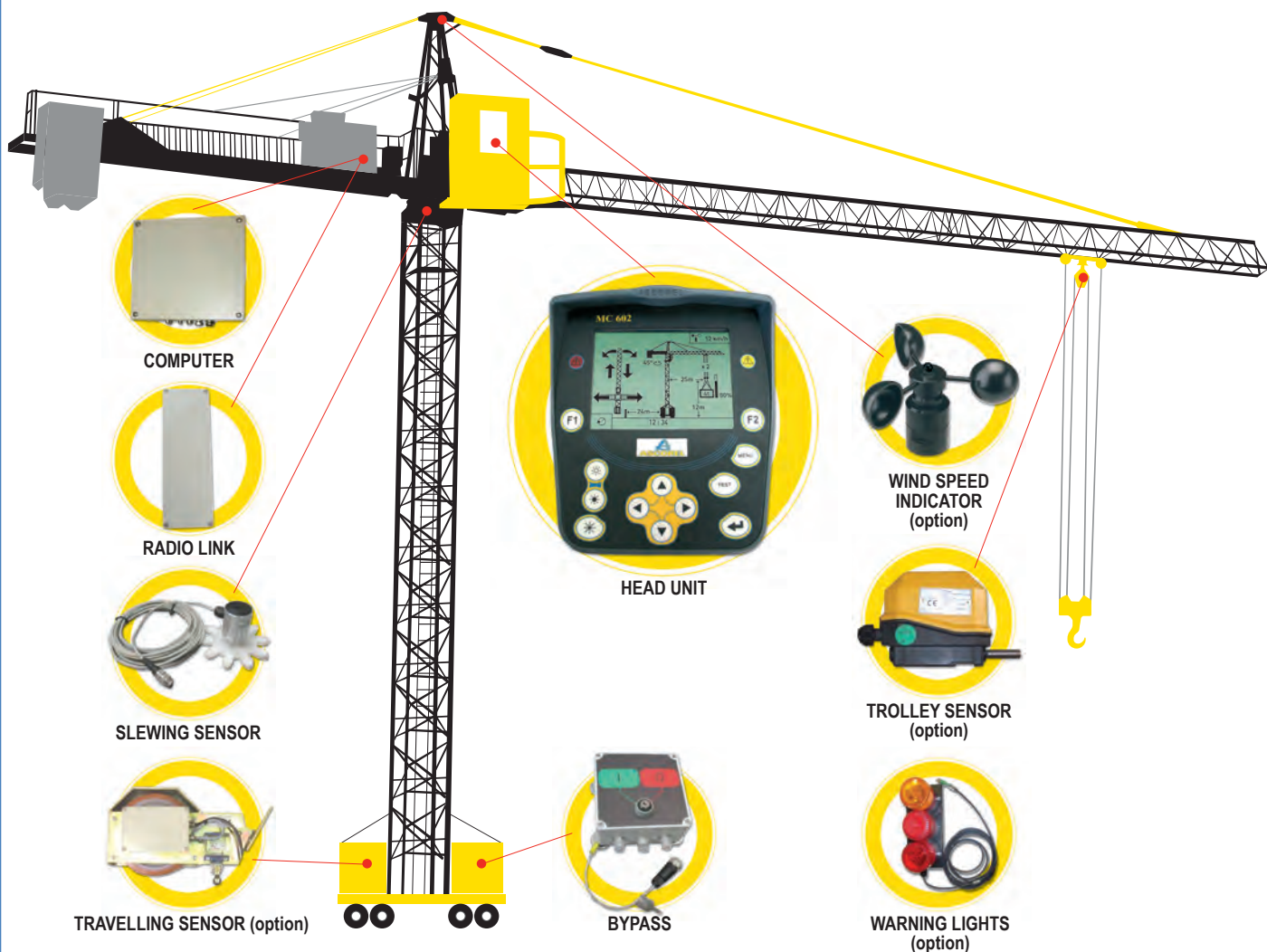
SUPERVISOR SOFTWARE IS AVAILABLE TO REMOTELY MONITOR CRANES IN REAL TIME LOCALLY OVER THE INTERNET

Simply with the aid of an IP address, the manager of any work site is able to monitor his entire site and see precisely what is going on, from anywhere in the world.

✓

STANDARD ASSEMBLY ON A CRANE

MC 602 LOAD CONDITION CONTROLLER



AVAILABLE OPTIONS

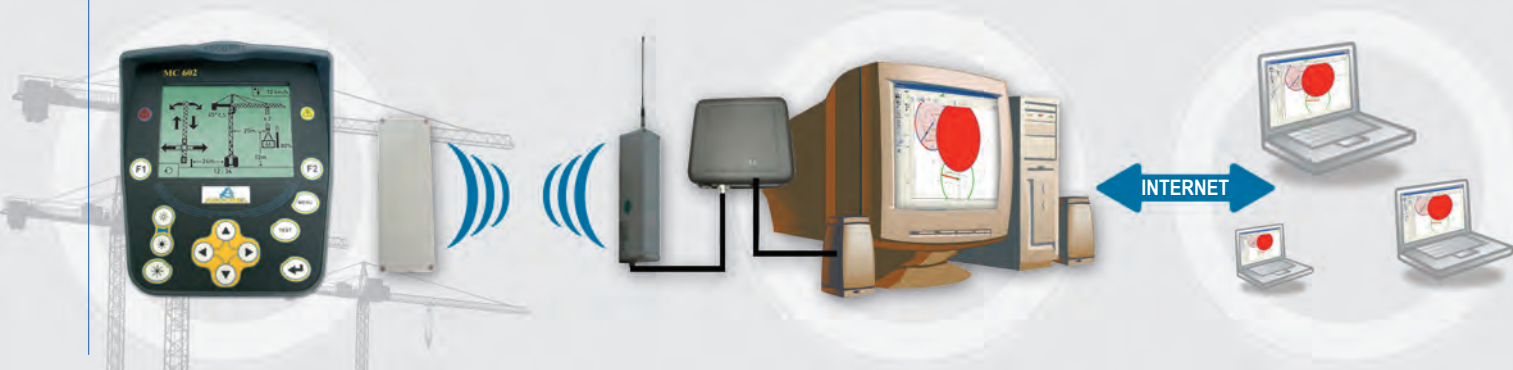
SUPERVISOR SOFTWARE

The SUPERVISOR software enable remote monitoring of your cranes over the internet. Each MC 602 installed on site communicates via radio or cable with a local computer. That computer is connected to the internet and acts as a server so you can get access to your cranes' information from anywhere in the world in real time.

ON WORK SITE
Cranes equipped with MC 602 and radio transmitters.

ON WORK SITE
Computer equipped with radio transmitter and connected to the internet acts as server

ANYWHERE IN THE WORLD
Computers that connect to the internet have secure access to cranes information in real time.



PROACTIVE SAFETY

THE MC 602 WAS DESIGNED WITH YOUR SAFETY IN MIND!

This system can detect the angle, weight of load lifted and ground radius of your crane. The crane is fitted with multiple sensors for each of the measured parameters which are then displayed in the operator's cabin to keep him informed. The MC 602 was designed to prevent cranes from flying over forbidden zones or running into each other. As a situation becomes increasingly unsafe, the MC 602 will slow down movement while warning the operator of the danger. The movements will be decreased and eventually stopped to avoid collision with another crane or flying over a forbidden zone.

The MC 602 can be custom-built to fit your needs. Depending on the sensors you choose it can perform more or less functions.



TECHNICAL SPECIFICATIONS

MC 602

POWER

Voltage: 24 Vdc
Consumption: less than 1 A

WEIGHT OF UNIT

13.23 lb. (6 kg)

DIMENSIONS

11.81 x 11.81 x 4.33in. (300 x 300 x 110mm)

DISPLAY AND KEYBOARD

320 x 240 x 5.7 in.

DEGREE OF PROTECTION

IP 65

NUMBER OF CRANES MONITORED

up to 16, without incidence on reaction time

RADIO LINK

870 Mhz

FIXED OBSTACLES

10 zones of 16 points each

INTER CRANES COMMUNICATION

cable or radio

EXTERNAL SUPPLY BLOCK

380 to 500 VAC, 50 or 60 Hz

ENVIRONMENTAL CHARACTERISTICS

Operating temperature: -4°F to 140°F (-20°C to 60°C)
Storage temperature: -22°F to 158°F (-30°C to 70°C)

SYSTEM INTERNAL CONNECTIONS

CAN bus

INSTALLATION

EQUIPMENT THIS SYSTEM CAN BE INSTALLED ON

This system can be installed on any type of cranes. Please feel free to contact us for more information. Send us an email at: anticollision@ascorel.com

CERTIFIED DEALER



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