



# MS900C WEATHER STATION

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## All sensors combined in one compact unit

### Highlights

- Sensors mounted and screened for precise measurements
- Reliable operation and easy inspection
- Long lifetime from quality sensors
- Virtually maintenance-free

MS900C is the compact outdoor meteorological station for the LCC climate computer series. Six high quality sensors for measuring conditions outside are mounted on a boom. The sensors measure the outside temperature, wind direction, wind speed, solar radiation, light intensity and rain. As an option, outdoor humidity can also be measured.

The outside temperature sensor is screened so that solar radiation and rain does not influence the sensor. The sensors have been placed on a boom so that no shadows reach the sensors, which could interfere with the measurements.

### Weather data to all computer units in the net

The boom is placed on a mast so that exposure to shadow and false wind is avoided. There must also be easy access for inspection. The weather sensors are virtually maintenance free; only the rain sensor requires cleaning twice per year. To distribute the signals from the weather sensors to the LCC System, the MS900C is equipped with the weather transmitter WT09C. The WT09C is placed indoors.

As with other devices in the LCC System, the weather station has been equipped with an alarm in the event of sensor and power failures.



## SPECIFICATIONS / MS900C WEATHER STATION

### Technical specifications

|                      |   |
|----------------------|---|
| Outside temperature  | From -25 to +60° C<br>(From -13 to +140° F)   |
| Accuracy             | ±0.3° C (0 - 50° C)<br>±0.6° F (32 to 122° F) |
| Reaction time        | 5 minutes                                     |
| Wind direction       | 360 degrees                                   |
| Margin               | ±10 %   |
| Accuracy             | ±1 %  |
| Wind speed           | 0 - 40 m/s                                    |
| Accuracy             | ±10 % 2 - 30 m/s                              |
| Sun radiation        | 0 - 1000 W/m <sup>2</sup>                     |
| Spectral sensitivity | 400 - 1100 nm                                 |
| Rain                 | Capacitive sensor                             |
| Humidity             | 10 - 100 % RH - Option - not standard         |
| Accuracy             | ±3 % (40 - 100 % RH)                          |
| Reaction time        | 15 seconds                                    |
| Supply voltage       | 230 V +10 % -15 %, 50/60 Hz                   |
| Alarm output         | 1 potential free contact<br>max. 42 V AC, 2 A |
| Digital inputs       | 4 potential free 5 V, 10 mA                   |
| Analogue inputs      | 4 0 - 5 V standard Senmatic                   |
| Communication        | ARC-net with RS485 interface                  |

### Physical specifications

|                         |   |
|-------------------------|---|
| <b>Transmitter</b>      |   |
| Dimensions<br>H x W x D | 200 x 300 x 100 mm (8 x 12 x 4")                        |
| Weight                  | 1 kg (2.2 lb)   |
| <b>Boom</b>             |   |
| Dimensions<br>H x W x D | 200 x 800 x 100 mm<br>(8 x 32 x 4")                     |
| Weight                  | 1.9 kg (4.2 lb)   |
| Connector               | 1" muff for iron pipe                                   |
| Proofing                | IP54  |
| Emission                | EN50081-1   |
| Immunity                | EN50082-1   |
| Temperature             | 0 - 50° C (32 - 122° F) without<br>direct sun radiation |
| Humidity                | 0 - 95 % RH without condensation                        |

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