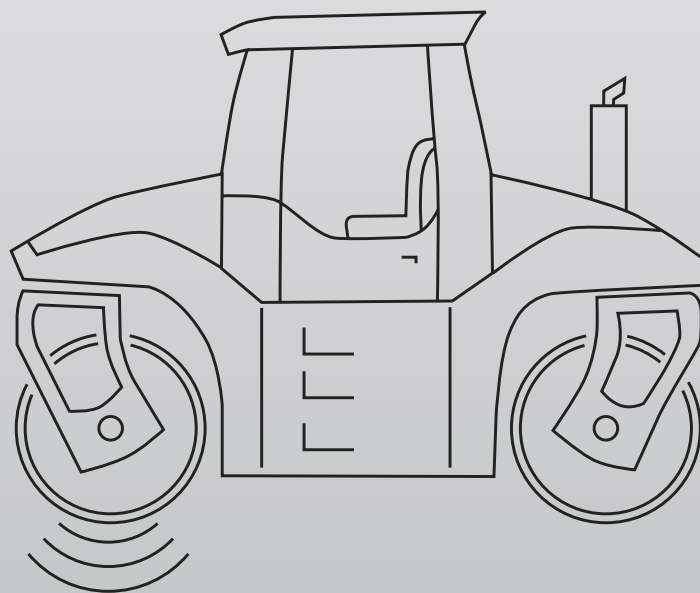


# ACM – Asphalt Compaction Monitor

Asphalt compaction measurement system for vibratory rollers





# ACM – Asphalt Compaction Monitor

## Fast, professional asphalt compaction with the ACM

### The ACM saves time and costs

The Asphalt Compaction Monitor ACM from Völkel offers first-rate technical support for asphalt compaction with tandem vibration rollers. Today's requirements for load capacity and evenness of the surface are achieved within the shortest of periods with the ACM.

The measurement and information system provides the current compaction process data continuously on the monitor in the driver's cabin. This enables the roller driver to assess compaction progress directly and to easily read out when a well-compacted, homogeneous surface is achieved which avoids recompaction and deformation by traffic to a great extent.



### ACM display and depiction

#### ► Asphalt surface temperature

Analogue as a thermometer, digital as a value (°C) over it

#### ► Compaction values (actual values) for the left-hand and right-hand binding sides

Analogue as a dark area on the left-hand and right-hand sides of the compaction scale, digital as a numeric value over it. If the actual value increases, the area becomes larger

#### ► Compaction set value

Analogue as a solid line in the area of the actual values, digital as a numeric value between both actual values

#### ► Homogeneity

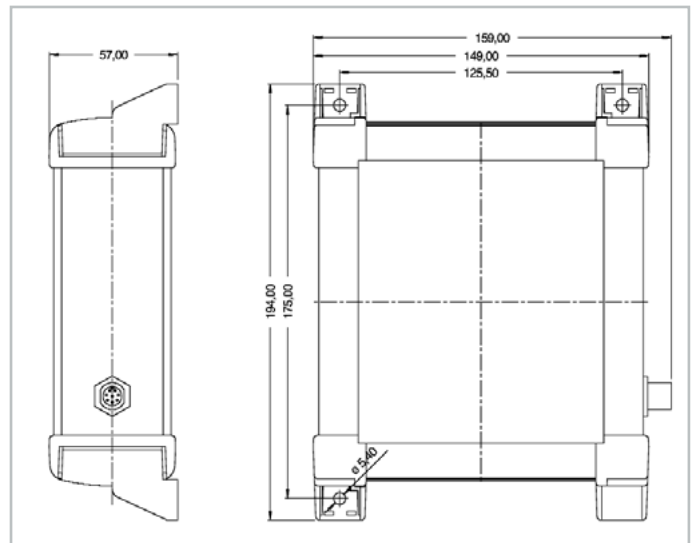
Analogue as a bar under the compaction values. The lower the horizontal expanse, the higher the homogeneity

#### ► Vibration frequency

Digital next to the symbol. The mean value from both sensors' measurements is depicted in Hertz

#### ► Jump mode

Warning message instead of the homogeneity display



### ACM technical data

Dimensions (WxHxD)	159 x 194 x 57 mm
Supply	8 ... 32V, reverse pole protection
Display	128 x 128 pixels LCD, Lens coverage area 73 x 73 mm Backlighting
Operation	3 foil keys
Interfaces	RS232, CAN
Housing	Black aluminium, powder-coated
Protection category	IP65
Temperature range	-20 ... +70°C
EMV	72/245/EEC, 75/322/EEC, EN 13309, ISO 7637, EN 14982

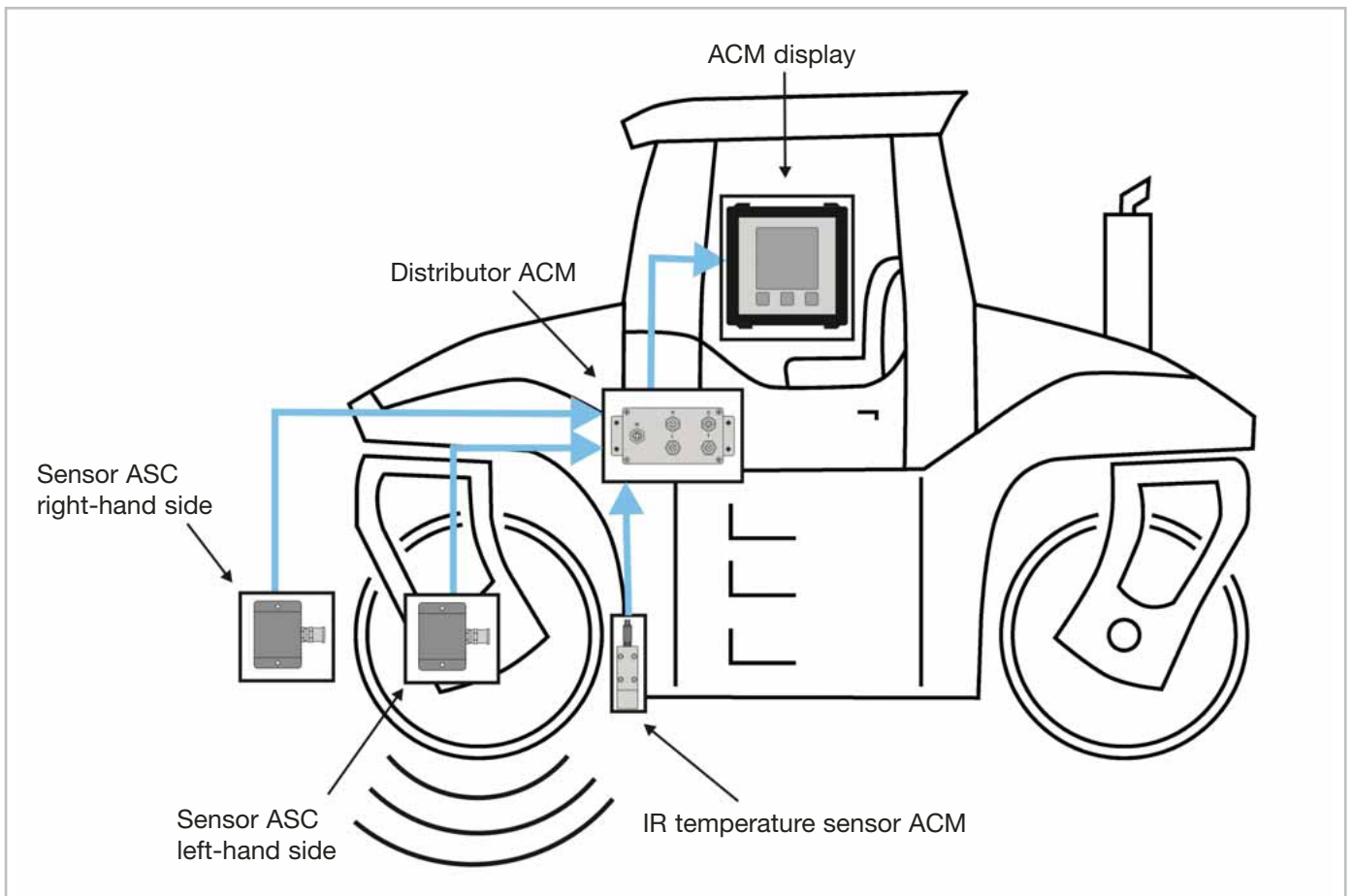
## Compaction control – easy to install

### The compaction target and differences are easy to recognise

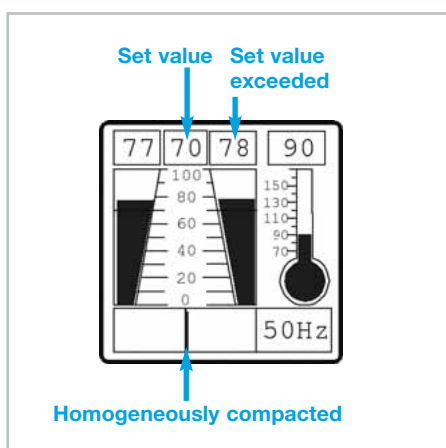
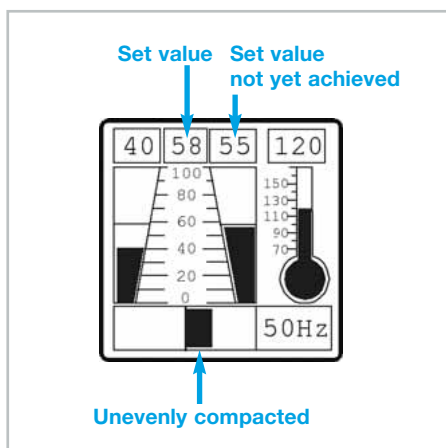
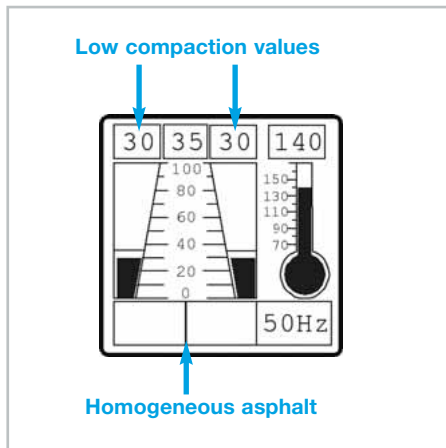
The availability of the most important process data on the asphalt roller during the execution of construction work enables the machine operator to take appropriate decisions. With this objective data, he can easily adapt the operational settings for the roller to the respective conditions (mix, thickness) and use the time frame for asphalt installation optimally.

### ACM advantages

- Easy handling for compaction control
- Identify limits fast
- Avoid superfluous travel
- Increase integrated work quality
- Save time and costs



## Intuitive user interface



## ACM – Asphalt installation with intelligent assistance

### Asphalt surface temperature and compaction values

Already during the first cycle, the **asphalt surface temperature** and current **compaction values** provide reliable orientation.

### Compaction progress

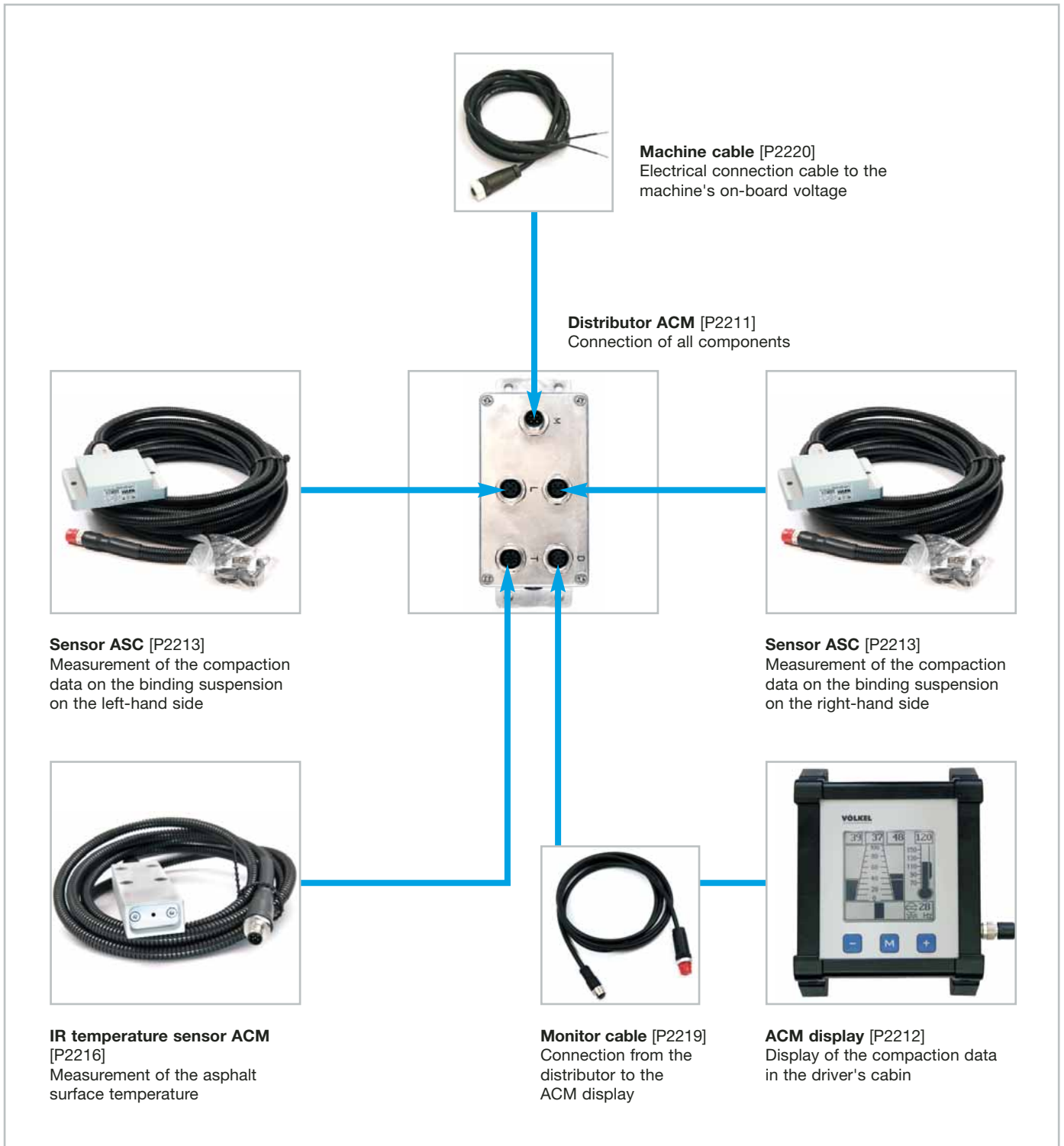
During the compaction process, the ACM provides precise information on the **homogeneity and compaction progress**. Different compaction values mean that the ground is not yet evenly compacted. Further passes are necessary.

The **compaction set value**, depicted as a line and a figure, is a benchmark for the machine operator. It is calculated automatically from previous passes and shows the compaction value which can be achieved in the current installation situation.

### Compaction target

ACM makes it intuitively recognisable when the **compaction target** – a sufficiently compacted and homogeneous asphalt surface – is achieved: the measured compaction values on both sides are virtually identical and the set value is achieved or exceeded.

## ACM install – connect – compact







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