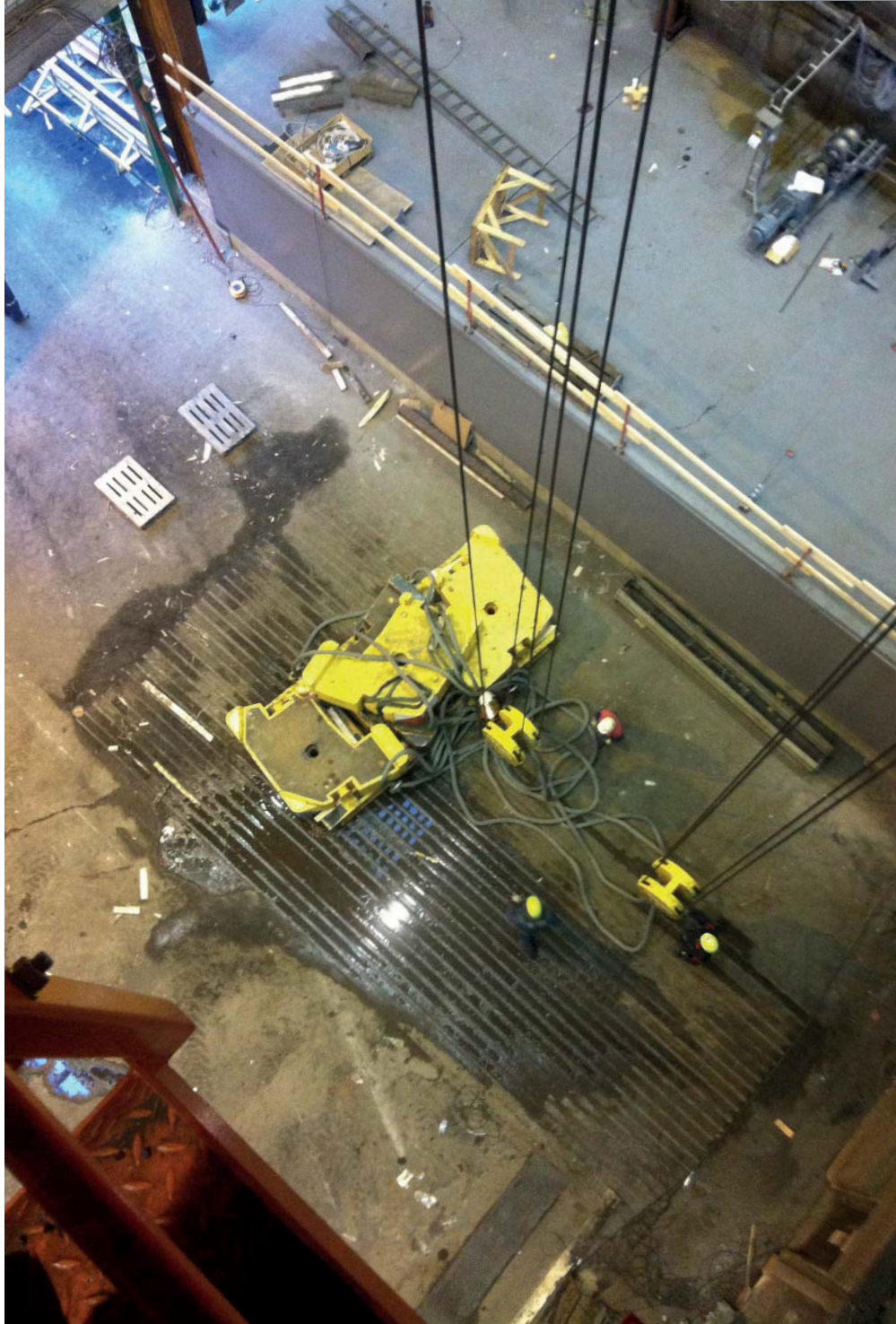


Gigasense AMU-Angle Measurement Unit for CSM



The AMU sensor will complement the overload protection with angle measurement of the wire rope, or measure the angle of the crane boom.

The AMU sensor in combination with CSM Crane Safety Monitor either controls the angle and the force in conjunction, or controls only the angle in a lifting device

With Gigasense AMU sensor, you increase the life time of the wire ropes and save money.

This excellent device further improves your safety and saves and protects wire ropes.

The AMU sensor is an option and can only work in combination with a Crane Safety Monitor 8:7xx

GIGASENSE

Gigasense products within Force Measurement and Crane Safety are well known high quality products, built from many years' experience and used by leading heavy duty industry around the world.

Gigasense products meet the highest demands of performance level requirements.

We are represented by many selected local partners in more than 30 countries on six continents.

AMU-Angle Measurement



Technical Data

Model Name
AMU sensor unit

Part Number
AMU700

MAINS SUPPLY VOLTAGE
24 VDC, maximum 50mA
supplied by CSM unit

ENCLOSURE
Aluminium box
Dimensions 98x64x37mm
PROTECTION CLASS IP65.

TEMPERATURE RANGE
-20°C to +70°C.

INTERFACE CONTROL
CAN interface
for CSM unit only

ANGLE PARAMETERS
F-angle $0 \pm 90^\circ$
S-angle $0 \pm 90^\circ$
A-angle $0 \pm 90^\circ$

RESOLUTION
Angle $0,1^\circ$

MOUNTING
Attached directly
On wire rope \varnothing 5-44mm
Or on the crane boom

SETTING OF LIMITS/
PARAMETERS
Simply from CSM unit

Function

The AMU sensor measures the angles of the wire rope, or on the crane boom. It is used to control the angle via limits for maximum. allowed angle, or in conjunction with force and angle, to avoid wear of the wire ropes. As the angle of the crane boom or wire rope changes, the less load is accepted by the CSM, if the AMU works with a force transmitter.

Settings

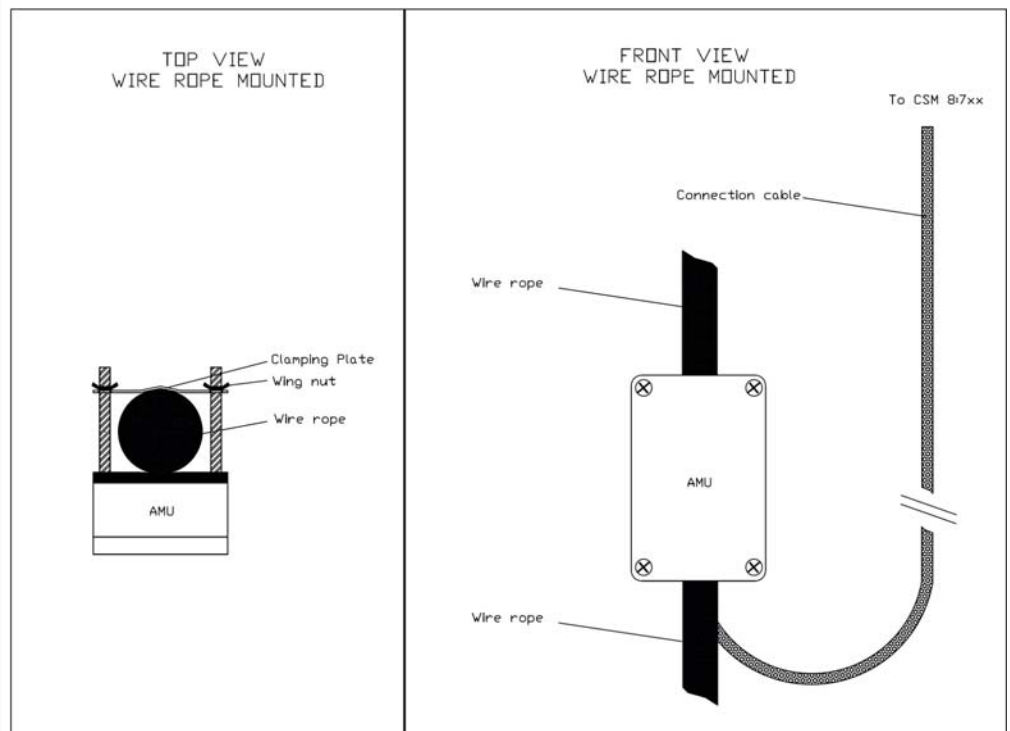
All settings are made in the Crane Safety Monitor unit. We set breaking values for different angles, or in with or without force dependency. Compensation curves for combined angle control and force measurement affect the breaking value, that are normally set to control the overload protection value. The more angle in a certain direction, or on the crane boom, the more the CSM 8:7xx reduces the breaking value.

Safety

If the CAN bus is interrupted between the CSM 8:7xx and the AMU sensor, the CSM puts the assigned limits in alarm state. Several AMU sensors can be connected to the same CSM 8:7xx

Mounting

The AMU sensor is clamped on to the wire, with the supplied clamping plate, or directly on the crane boom.



 **GIGASENSE**



producer of **PIAB**