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Activity meter system

General description

Activity Meter System

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The Activity Meter System is an electronic, heat-detection system for cows and heifers approaching heat. It comprises the following parts:

- Activity Tag (1)
- Magnet (2) for setting the Activity Tag
- Activity Receiver with an RF interface (3)
- Antenna (4)
- Processor (5)
- Power supply (6)

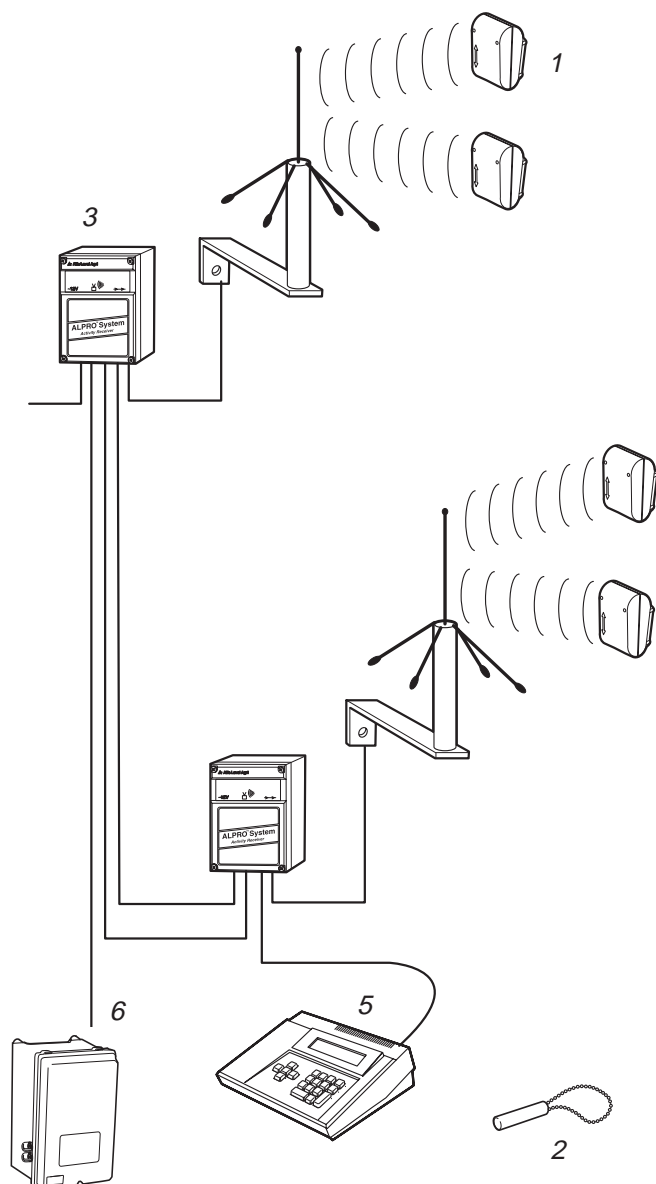
The purpose of the Activity Meter System is to alert the dairyman when an animal becomes more active than normal, which usually indicates that the animal is in heat.

When the Activity Receiver (3) receives a signal from the Activity Tag (1) via the Antenna (4), a LED starts flashing.

A rolling 24-hour set of data is transferred every hour.

A magnet (2) is used to turn on and off and to reset the Activity Tag for a new cow.

The Activity Tag must be placed on a neck band around the animal's neck at least five days before an expected heat cycle begins to properly record the normal behaviour pattern of the animal.



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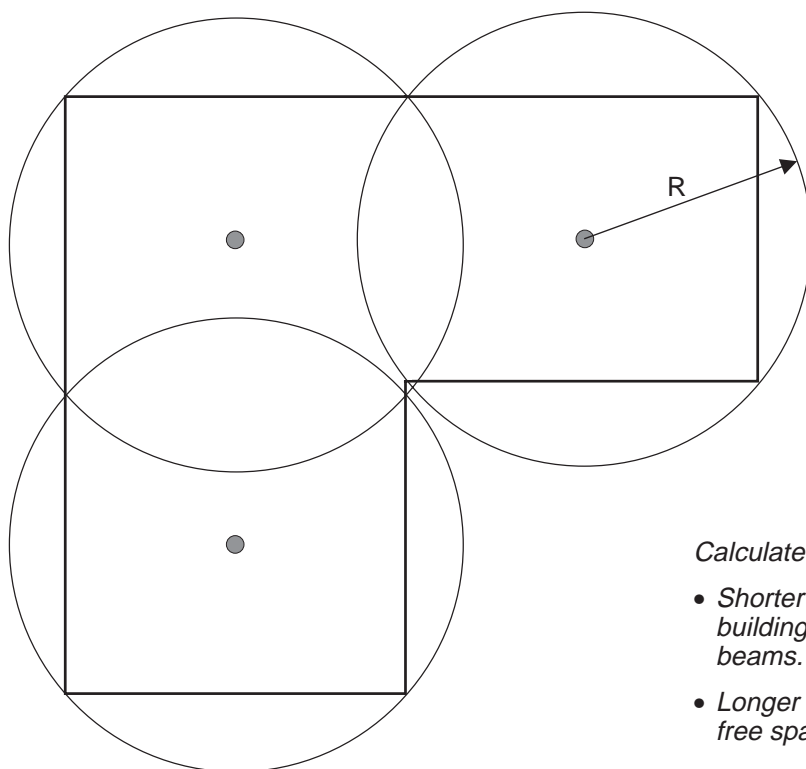


Activity Meter System

Planning

Antennas

To calculate the necessary number of antennas, draw circles on a plan of the barn according to adjoining figure. Make each circle about 40–70 metres in radius (R). Each one of these circles represents the radius of action for an antenna.



Calculate with:

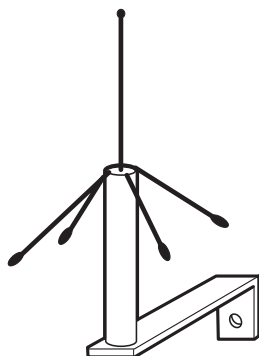
- Shorter range (= R is shorter) when the building has a low ceiling and has many beams.
- Longer range (= R is longer) outdoors with free space.

Make sure to cover the whole plan with circles, not leaving any “dead” spaces.

Install an antenna in the centre of each circle.

In the figure example, the number of antennas to install is 3.

Find a place for the installation, e.g. on a roof beam, at a height of at least 3 m. The antenna can be installed at any convenient angle, e.g. upside-down.



Also find a place suitable for installation of the Activity Receiver box delivered with the antenna.

The Activity Receiver shall be installed as low as possible, but out of the reach of the cows.

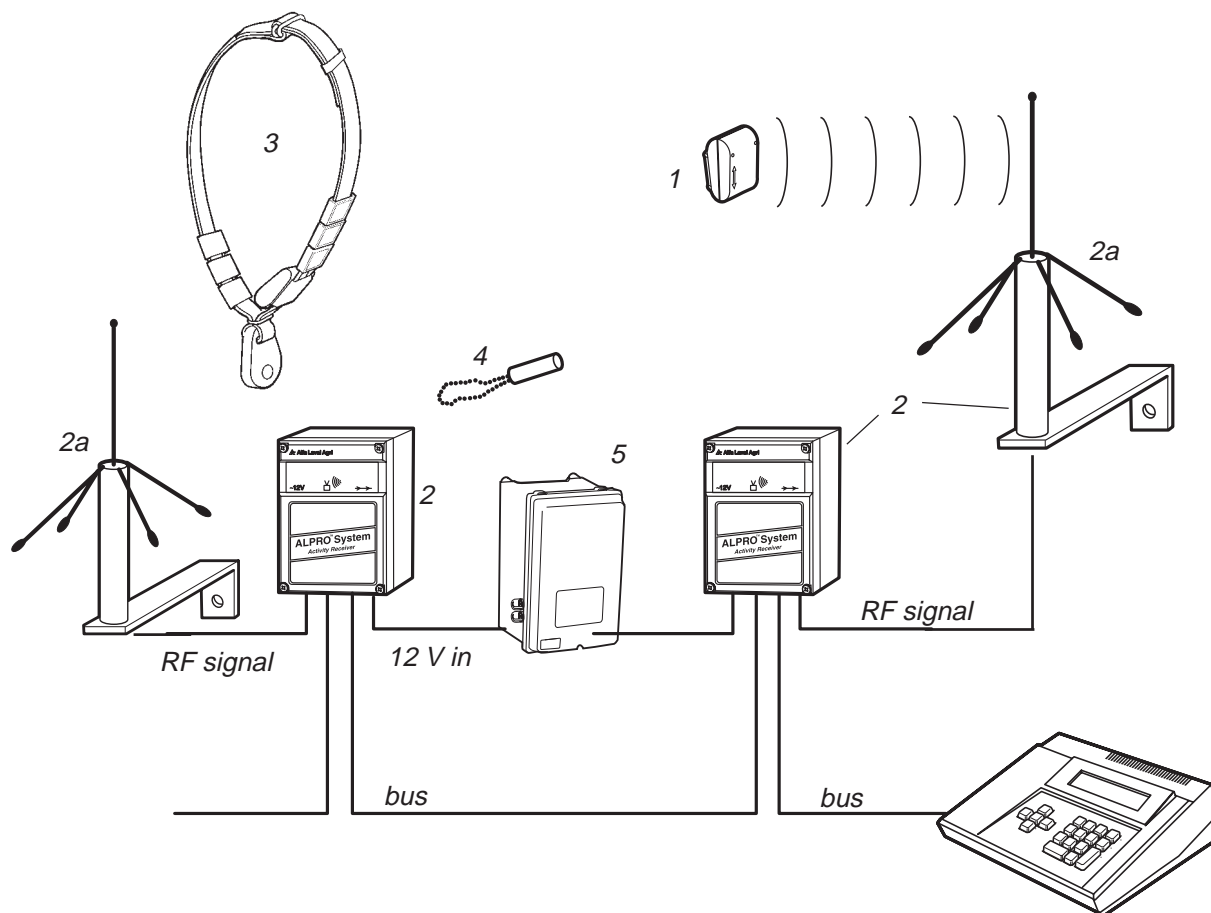
The cable connecting the Activity Receiver with the antenna has a length of 2.5 metres.

Antenna and Activity Receiver



Activity Meter System

System specification



Item	Function Code	Product/ Sales structure	Article No.	Remarks
1	CDM	Activity Tag	906500-80	
2	CIA	Activity Receiver	906510-80	Antenna included
2a	CIA	Antenna, complete	906729-80	Only the antenna
3	CIT	Neckband, standar	998996-87	Length = 1300 mm
		D:o	998996-88	Length = 1450 mm
		D:o	998996-89	Length = 1300 mm
4	CDM	Magnet	906535-80	For Tag on/off
5	CPP	Transformer	906234-01	14 V AC, 150 VA

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Troubleshooting

Problem	Possible cause	Action
A. Cow with activity tag does not show activity.	1. The activity tag number is wrong. 2. The cow has lost the activity tag. 3. The cow is out of range of the antenna. 4. The antenna receiver is not working.	1. Check the tag No. and enter the right No. 2. If the tag is updating the last sending it is still in range and is working. 3. Move the cow to a group that is closer to the antenna. 3. Move the antenna or erect another one to cover the area. 4. Check the power supply and the bus connection. Replace if necessary.
B. Activity tag No. without corresponding cow number shows in function 6:1:7:3, LAST SENDING.	1. Activity tag is not turned off. 2. The wrong tag No is entered in function 1:1, COW/TRANSP/TAG NO.	1. Find the tag and turn it off. 2. Enter the right activity tag No.

