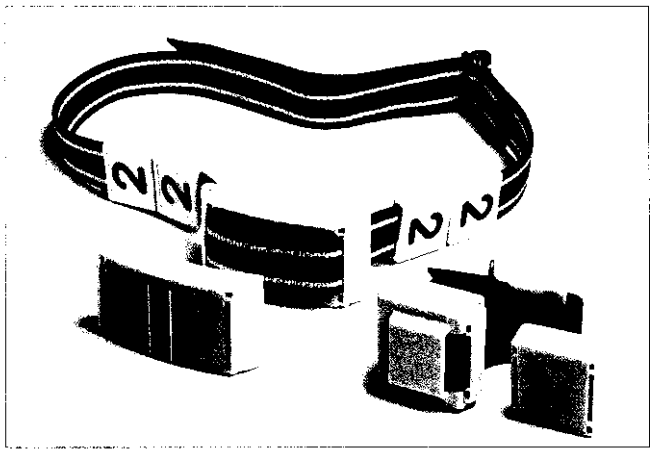
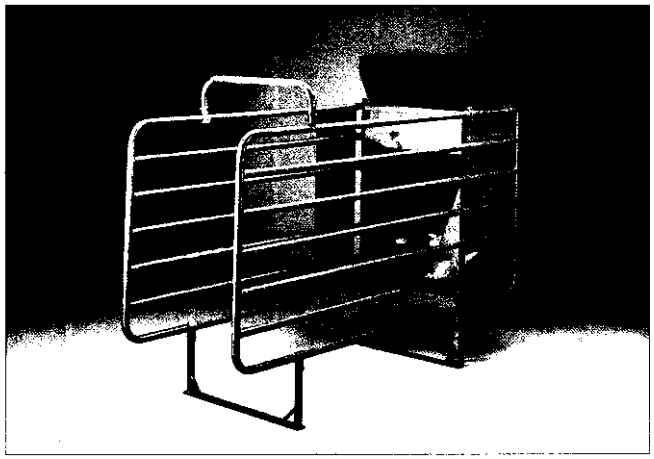
The modern dairy farmer is at the centre of rapidly progressing automation. Higher quality requirements, more stringent production regulations and declining sales prices have resulted in a trend towards larger herds, in which the total farming returns are of primary importance. In order to optimise these farming returns, the dairy farmer must have accurate and detailed information in order to make the right decisions. The Nedap Cattlecode management system meets that demand. With this system the genetic potential of the individual animals in the herd is optimally utilised and, at the same time, the production costs monitored.



Responder and Respactor for identification and activity measurement



Feeding Station

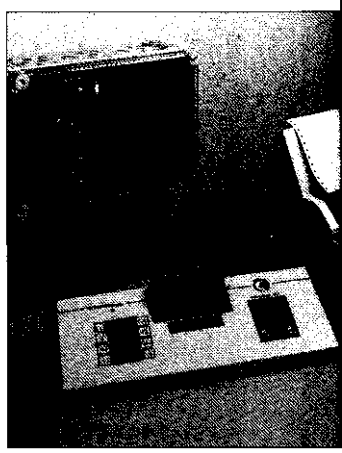
The Cattlecode Management Computers

The Cattlecode programme consists of a wide selection of management computers, specially developed for dairy farming. **Process computer and PC** are separate units, so that a high degree of reliability is guaranteed. Depending on the farm-size and individual requirements, a range of five different computers are available, as shown in the overview on the back page of this brochure. For easy data input, these computers can be linked to the ID Logger, a handy portable computer with built-in Responder antenna.

Cattlecode: the total management system

The basis of the Cattlecode system is individual management of the animals. The Responder ensures automatic identification of the animals in the milking parlour and feeding station. The individual milk yield is recorded in the milking parlour, possibly along with the temperature and conductivity of the milk. The system processes the milk yield and calculates the individual concentrate requirement, which is then automatically supplied by the feeding station. Individual activity and weight can also be automatically recorded for optimal monitoring of fertility and health.

X-ACT Computer



VC4-250 Computer

The milk yield is the basis of the individual management of cows. Not only the quantity of milk is important but the quality too. The conductivity and temperature of the milk provide a great deal of information on the quality of the milk and the state of health of the individual cows.

Walk-through identification

At the entrance of the milking parlour the cows are automatically identified by means of a stainless steel portal antenna. The cow numbers are coupled to a milking point in order of entry.

Milking Point Keyboard

Each milking point is equipped with an easy-to-use keyboard which is linked to the central management computer. The milk meter, temperature and conductivity sensors are connected to this keyboard. All milk information is clearly indicated on the keyboard. What's more, important data on cow calendar, fertility and health can be monitored and input on the spot.

Memolac and Milk Level Meter

The Cattlecode programme includes both a Milk Flow Meter and a Milk Level Meter.

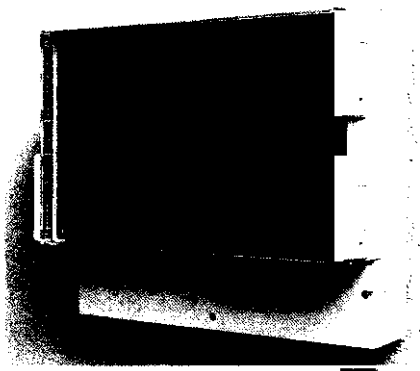
Cow Feeding Station

The sturdy and reliable feeding station is suitable for 25-30 cows. The concentrates are dispensed in small and accurate portions, adjusted to the eating rate of the individual cows.
The concentrates are optimally utilised with this station.

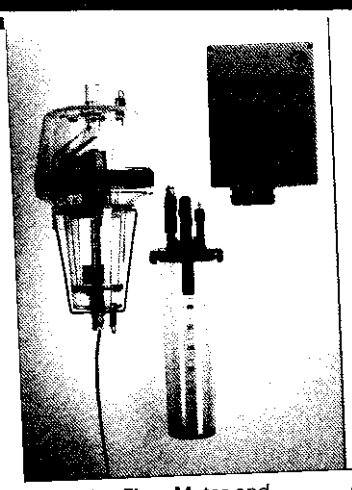
Activity measurement

The cow's activity is an indication of not only heat, but also of health. Activity is measured with the Respactor, a Responder with built-in movement sensor. With the Respactor, the Cattlecode system gives the optimum time for insemination and also monitors the health of the individual cows.

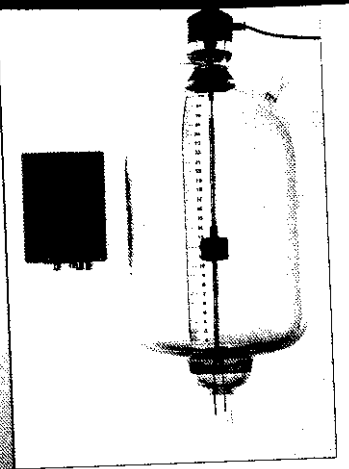
ID Logger: portable computer with built-in Responder antenna



Walk-through identification in the milking parlour



Memolac Flow Meter and Milking Point Keyboard



Nedap Milk Level Meter with Milking Point Keyboard

Milk Claw with conductivity measurement per quarter

These certified milk meters are connected to the control panel and guarantee accurate and reliable milk yield recording.

Conductivity measurement

Increased conductivity of the milk is an indication of mastitis. Early detection of mastitis allows the farmer to separate the milk and treat the infection before the damage becomes serious. The Cattlecode system measures the conductivity of the milk in each separate quarter of the milk claw. This makes detection very accurate and an early warning can be given. Because the system also indicates which quarter is infected, treatment can be given more effectively.

Temperature measurement

The Cattlecode System also measures the milk temperature in the claw. This parameter is an indication of the cow's general state of health.

Attention signal

A clear attention signal on the keyboard indicates that the milk must be separated, for instance, because the conductivity value exceeds the maximum permissible level. It indicates colostrum and penicillin treatment as well, so

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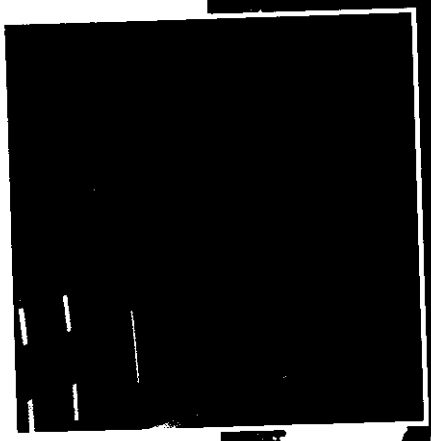
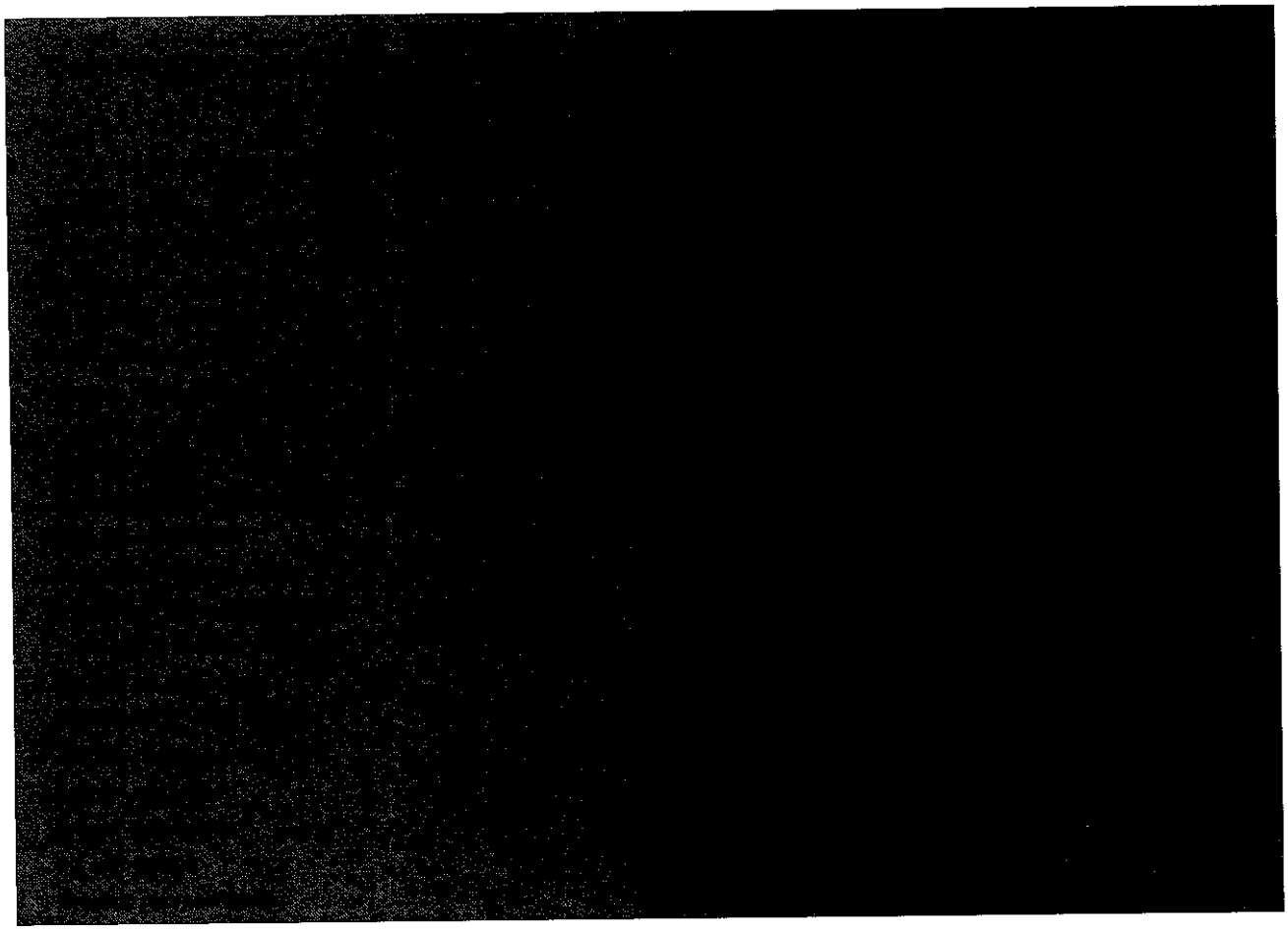
Cattlecode

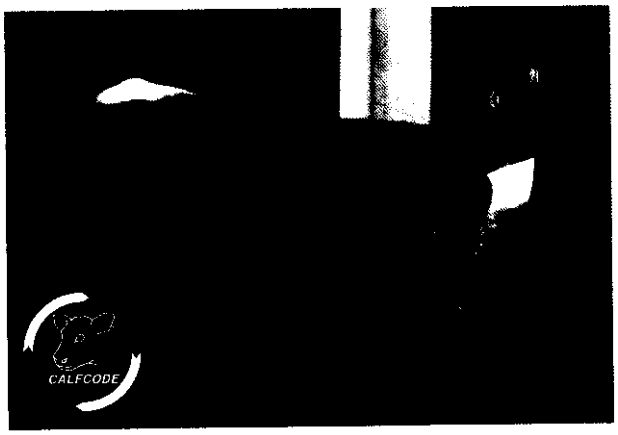


BY NEDAP AGRI

CATTLECODE

BY NEDAP AGRI





Cattlecode

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The following two systems are derived from the Cattlecode system.

The Calfcode System

The Calfcode system is an automatic feeding system for breeding or fatting-calves in group housing. A Responder is attached to the calves, by means of which an individual ration of (powdered) milk or concentrate is supplied. The calf drinking station is equipped with a fixed teat or a patented moving teat. The Calfcode system ensures efficient milk utilisation, less digestion problems and increased health of the calves.

The Capricode System

Capricode is a complete management system for modern milk goat keeping. It is similar to the Cattlecode system. The individual feed ration is adjusted to milk production and quality. Thanks to Responder identification, the milk goats are allowed full freedom of movement in group housing. With the Capricode system, the animals can be individually controlled for optimal production at minimal feed costs.

Distributor

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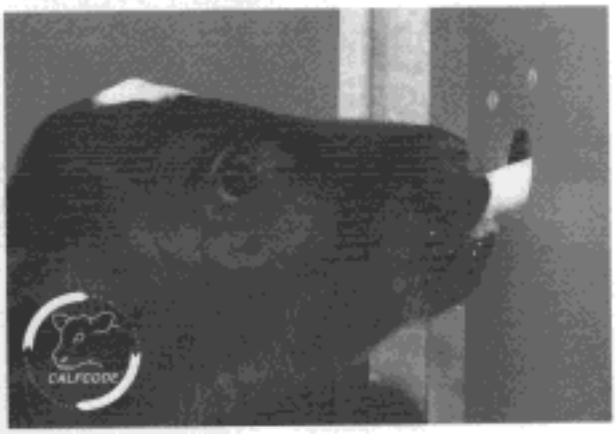
Cattlecode - Calfcode - Capricode Computer systems

Type	Popular 140	VC4-250	X-ACT	X-PERT
Number of animals	140	250	500	5000
Number of Groups	6	10	30	30
Feeding	+	+	+	+
Number of feed types	3	3	5	5
Animal calendar	+	+	+	+
PC-management coupling	-	-	+	+
Number of cow feeding stations (Cattlecode)	6	16	150	400
Number of calf drinking stations (Calfcode)	6	16	150	400
Number of goat feeding stations (Capricode)	6	16	150	400
Milk measurement	-	+	+	+
Number of milking points	-	16	150	400
Feeding in the milking parlour	-	+	+	+
Temperature measurement	-	-	+	+
Weight measurement	-	-	+	+
Conductivity measurement	-	-	+	+
Activity measurement	-	-	+	+
Animal separation	-	-	+	+
Printer connection	+	+	+	+
PC connection	+	+	+	+
Graphic representation	-	-	+	+



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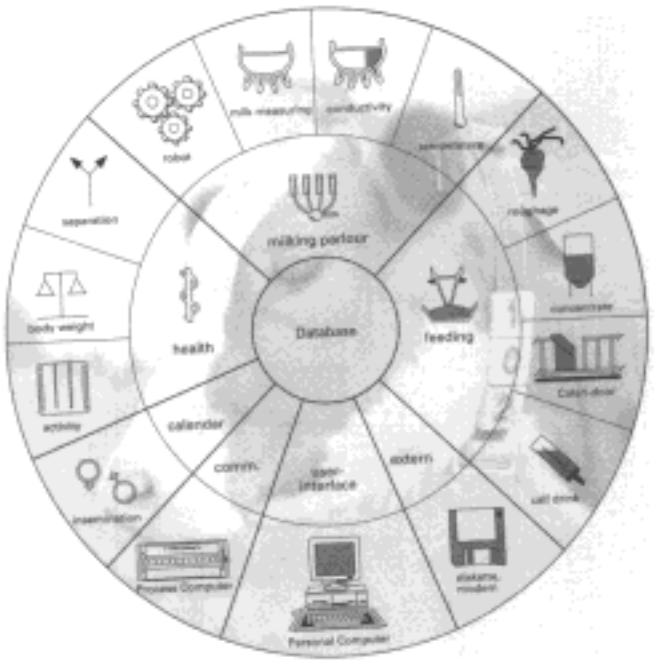
Individual Cow Management System



Millions of people, animals and goods are identified without problems each day by a Nedap identification system. Nedap Agri management systems for dairy farming, pig farming and poultry farming are prominent world wide. In the Nedap Agri Cattlecode system each cow is provided with a unique electronic code via a Responder. This code forms the basis of the management system, with which an optimal individual control of the animals can be realised. The Cattlecode system ensures correct concentrate dosing, accurate milk recording, health and weight monitoring, as well as optimal fertility guidance. Farming returns and animal friendliness are the features of the Cattlecode System, which is currently being used successfully in more than 50 countries.

Cattlecode

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Cattlecode

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