Innovation In and
Out of Parlour

Milk Meter Operation Manual

Version - 1.1

Date - December 2014

Part Number - 39-0072

Index

Index

IMPORTANT - The operating instructions for the Milk Meter are divided into 3 colour coded sections. Please read the relevant section only and all of the sections that are not colour coded.

Manual Versions

Version 1.0 - December 2013.....First Version of Manual

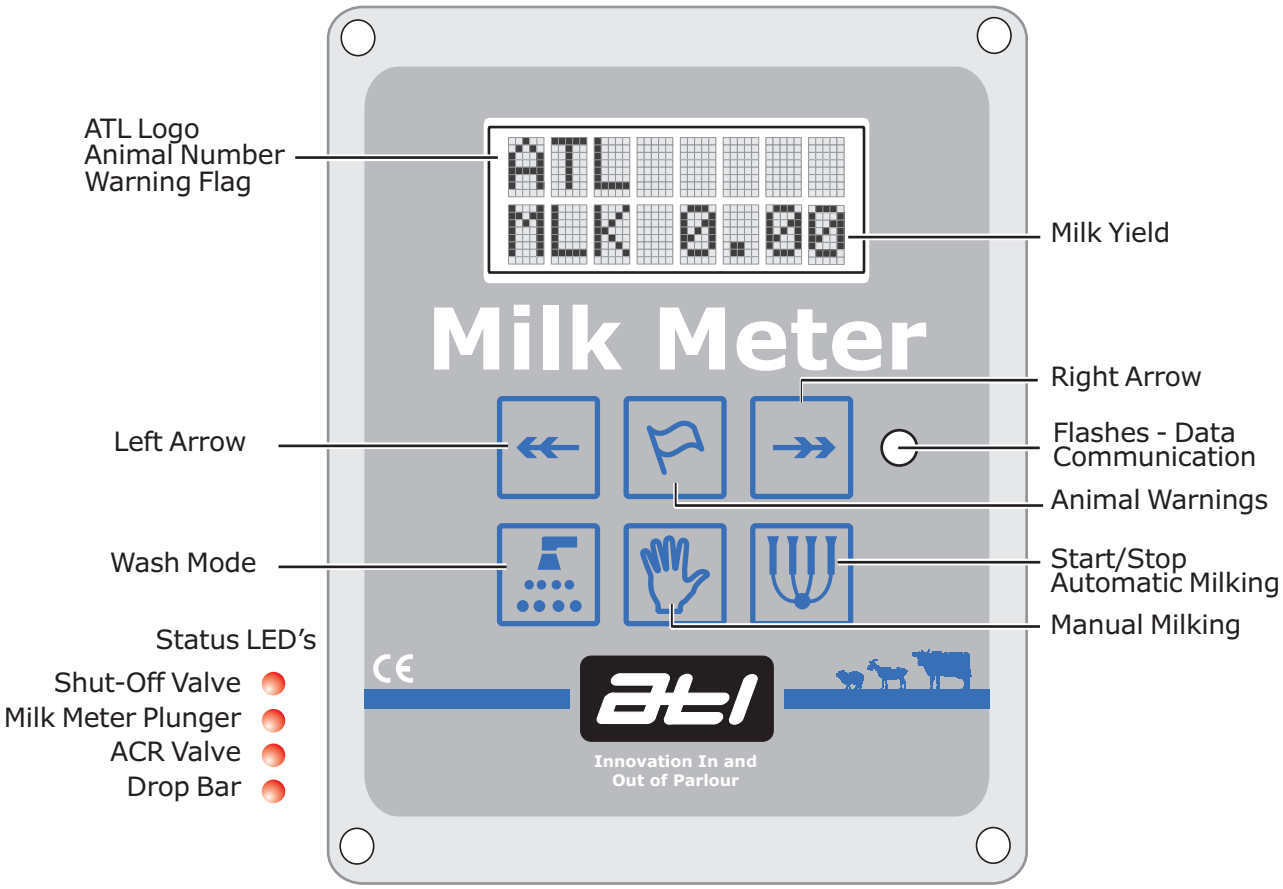
Version 1.1 - December 2014.....Added milking time and kick off warning

The Milk Meter Control Unit

The Milk Meter Control Unit is the electronic display which provides the user with control of the milking procedure and provides data at the milking point.

It can be used stand-alone or in conjunction with the MicroM3S Memory Control to provide further information such as previous milk yield, feed ration, warning flags and lactation number (only available when MicroM3S is linked to ATL Cowculator PC Software) and the ATL automatic identification system.

The keys and displays are shown in the illustration below:



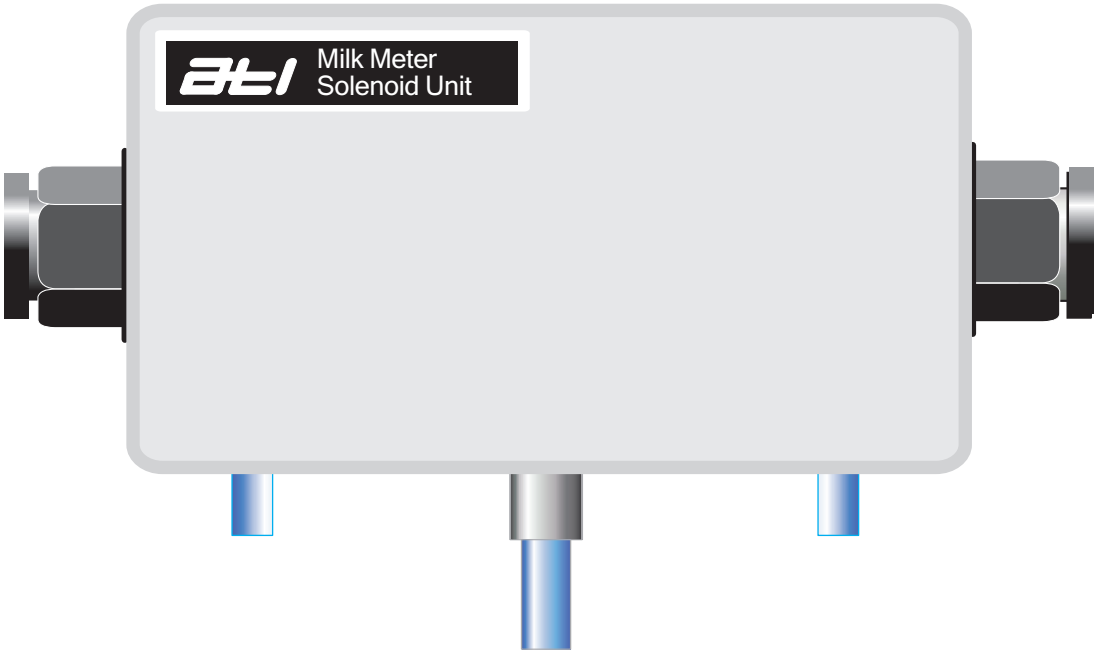
Milk Meter Control Box Features:

The available features depend on the level of integration with other ATL equipment such as the MicroM3S and automatic identification system.

- Display the identified animal number.
- Display the recorded milk yield.
- Display the previous milk yield.
- Display the lactation number.
- Display the feed ration.
- Display the warning flags for the identified animal at the milking point:
  - Artificial Insemination
  - Vetinary Attention
  - Mastitis
  - Dry-Off
  - Test
  - Bulling
  - Slow
- Automatic cluster removal
- Ability for instant cluster removal
- Manual milking mode

The Milk Meter Solenoid Box

The solenoid box contains two vacuum solenoids. One controls the vacuum shut-off valve in -line with the claw piece and the other controls the operation of the milk meter plunger. Under normal operation, when the solenoid valves are powered, the shut-off valve opens to allow vacuum to the cluster, the milk meter plunger lifts and milk is allowed to drain out of the milk meter.



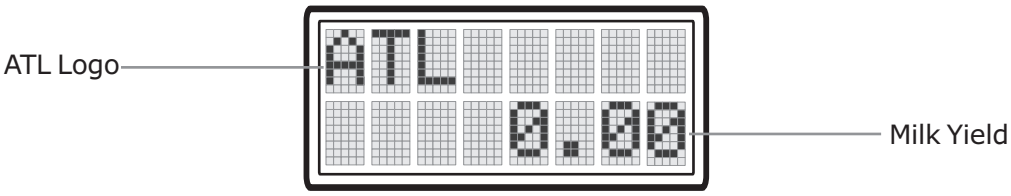
The Milk Meter Connection Box

The connection box provides an easy way of connecting all the necessary components together (i.e. The control unit, the milk meter, the ACR and other associated peripherals). It also provides an easy means to 'daisy chain' the power and data connections from milking point to milking point.

Using the Milk Meter System Stand-Alone

The Milk Meter system can be used in stand-alone format which means that it is not integrated into the MicroM3S; for information on using the Milk Meter with a MicroM3S and the automatic identification system please see the relevant sections.

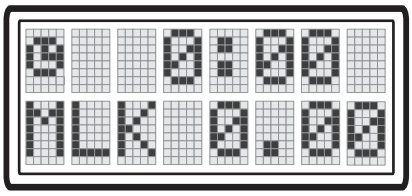
Control 'Power Up'



Stand-Alone Milking with the Milk Meter

The Milk Meter system has two milking modes - automatic and manual. The automatic milking mode allows the user to start the milking process and have it completed automatically (i.e. If ACR's are present, the clusters are lifted off the animal and milking is finished without user intervention). Manual milking mode allows the user to control the whole milking process from start to finish.

The Milking Procedure



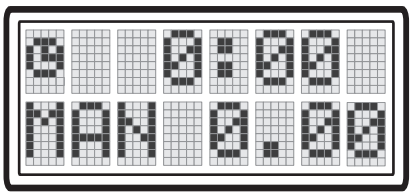
- Press the MILK key to start milking in automatic mode

  The display will show MLK in the bottom left hand corner and milking time on the top line of the LCD display

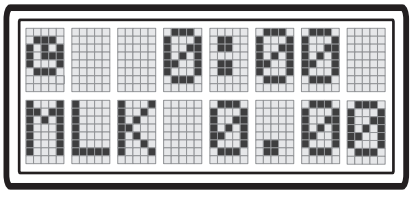
  If automatic cluster remover (ACR) connected, the cluster will be dropped and the shut-off valve opened applying vacuum to the teat cups

  The ACR can be raised or lowered in automatic mode independently of milking by pressing the MANUAL key and either the RIGHT (UP) key or LEFT (DOWN) key respectively

- The MANUAL key can be pressed during automatic milking to put the meter into manual mode (MAN is shown on the LCD display). This can be used if the cluster is kicked off, pressing the MANUAL key continues milking without zeroing the yield (NB - There is no ACR operation in manual mode).



- During manual mode the MANUAL key can be pressed again to return to automatic mode. The display will show 'MLK' in the bottom left hand corner of the display and the yield will not be zeroed.

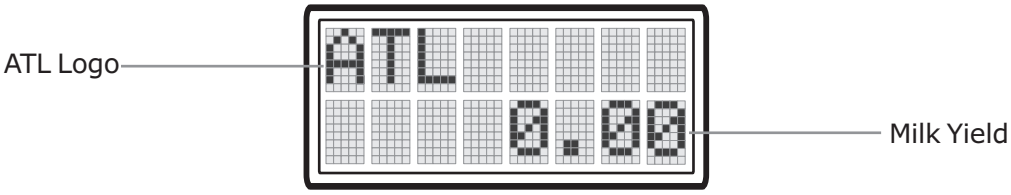


- To acknowledge the kick off warning, press the LEFT key or RIGHT key.

Using the Milk Meter System with the MicroM3S

The Milk Meter system can be fully integrated into the MicroM3S parlour control enabling the display of individual animal management information at each milking point; for information on using the Milk Meter stand-alone turn to page 3 or with the automatic identification system please see page 9.

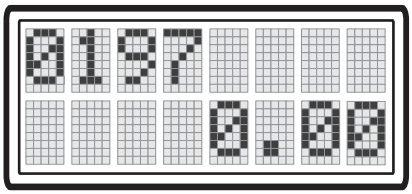
Control 'Power Up'

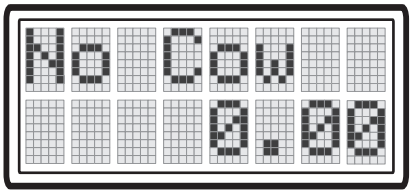


Extra Functionality Available with MicroM3S Integration

Before starting the actual milking procedure, the Milk Meter control shows the number of the animal at each individual milking point, along with the provision of warning flag, previous milk yield, lactation number and feed ration information.

The following sections provide information on these functions





Displaying Animal Numbers

- The animal number is displayed in the top left hand corner of the LCD display. As the animal numbers are entered into the MicroM3S control to feed the animals, the animal number is sent to the relevant Milk Meter control.

  NB - animal numbers cannot be entered using the Milk Meter control box; they can only be entered using the MicroM3S or the Extra Parlour Control.

- If no animal is entered for the stall, either ATL or No Cow / No Sheep or No Goat is displayed.
- Make sure the correct animal number is present at the stall before starting milking.

Using the Milk Meter System with the MicroM3S on Doubled Up Parlours

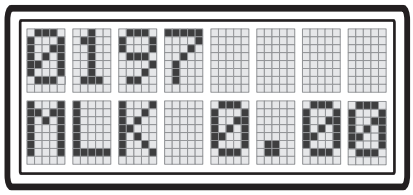
The Milk Meter system has two milking modes - automatic and manual. The automatic milking mode allows the user to start the milking process and have it completed automatically (i.e. If ACR's are present, the clusters are lifted off the animal and milking is finished without user intervention). Manual milking mode allows the user to control the whole milking process from start to finish.

The Milking Procedure

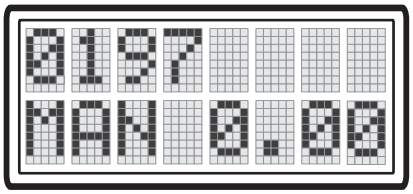
- Acknowledge any warning flags set against the animal.
- Press the MILK key to start milking in automatic mode:

  The display will show MLK in the bottom left hand corner.

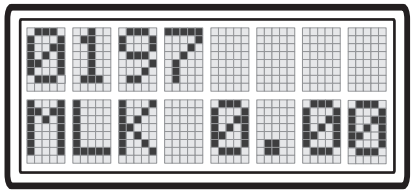
  If automatic cluster remover (ACR) connected, the cluster will be dropped and the shut-off valve opened applying vacuum to the teat cups.



  The ACR can be raised or lowered in automatic mode independently of milking by pressing the MANUAL key and either the RIGHT (UP) or LEFT (DOWN) key respectively



- The MANUAL key can be pressed during automatic milking to put the meter into manual mode (MAN is shown on the LCD display). This can be used if the cluster is kicked off, pressing the MANUAL key continues milking without zeroing the yield (NB - There is no ACR operation in manual mode).



- During manual mode the MANUAL key can be pressed again to return to automatic mode. The display will show 'MLK' in the bottom left hand corner of the display and the yield will not be zeroed.
- **IMPORTANT -** Do not leave the milk meter in manual milking mode when entering new animal numbers into the MicroM3S. If this happens, the milk yield will start at the previous animal's milk yield instead of zero and therefore be incorrect.

Using the Milk Meter System with the MicroM3S on Swingover Parlours

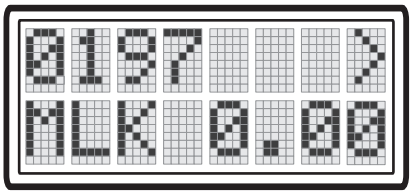
The Milk Meter system has two milking modes - automatic and manual. The automatic milking mode allows the user to start the milking process and have it completed automatically (i.e. If ACR's are present, the clusters are lifted off the animal and milking is finished without user intervention). Manual milking mode allows the user to control the whole milking process from start to finish.

The Milking Procedure

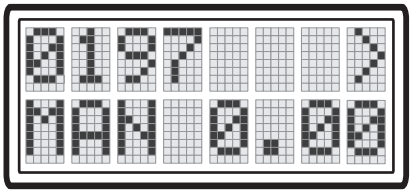
- Press either the LEFT or RIGHT key to select which side the animal is being milked on or swing the arm to the side to be milked (if have swingover switches installed)
- Acknowledge any warning flags set against the animal.
- Press the MILK key to start milking in automatic mode:

  The display will show MLK in the bottom left hand corner.

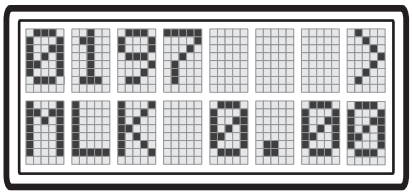
  If automatic cluster remover (ACR) connected, the cluster will be dropped and the shut-off valve opened applying vacuum to the teat cups.



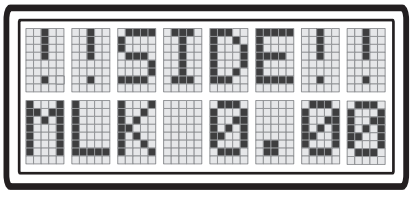
  The ACR can be raised or lowered in automatic mode independently of milking by pressing the MANUAL key and either the RIGHT (UP) or LEFT (DOWN) key respectively



- The MANUAL key can be pressed during automatic milking to put the meter into manual mode (MAN is shown on the LCD display). This can be used if the cluster is kicked off, pressing the MANUAL key continues milking without zeroing the yield (NB - There is no ACR operation in manual mode).



- During manual mode the MANUAL key can be pressed again to return to automatic mode. The display will show 'MLK' in the bottom left hand corner of the display and the yield will not be zeroed.
- **IMPORTANT -** Do not leave the milk meter in manual milking mode when entering new animal numbers into the MicroM3S. If this happens, the milk yield will start at the previous animal's milk yield instead of zero and therefore be incorrect.
- **IMPORTANT -** If the swingarm is mistakenly moved past the swingover switch magnet, whilst the meter is milking, the meter will continue to milk and the display !!SIDE!!. This will continue to displayed until the swingarm is moved back past the magnet.



- If the swingarm was correctly moved past the magnet, press the MILK key to stop the milking procedure, return the arm to the correct side and press MILK key to re-start the milking.

Using the Milk Meter System with the MicroM3S Continued

Acknowledging Warning Flags

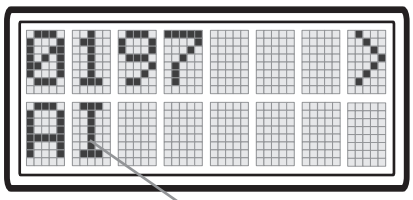
Any animal identified that has a warning flag set against it will cause the Milk Meter control to warn the operator. The warning is shown flashing in the lower half of the display.

- To acknowledge the warning, press the FLAG key.

  NB - If there is more than one warning set against a animal, the next warning flag in the sequence will be displayed on the control.

- Milking cannot commence until this warning has been acknowledged by the operator.

Setting and Clearing Warning Flags



- Ensure the correct animal number is displayed.
- Press the FLAG key to view the warning flags.

  Press the RIGHT key to step through the warning flags.
- If a warning flag is set against a animal, a cross will be in the top right of the LCD display.
- To set or clear a warning flag against a animal, press the FLAG key.
- To step to the next warning flag, press the RIGHT key.
- To exit from the warning flags routine, press the LEFT key.

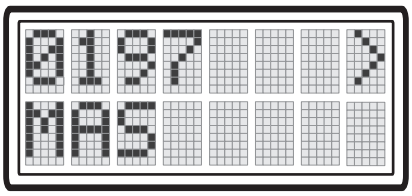
Warning Flags Available

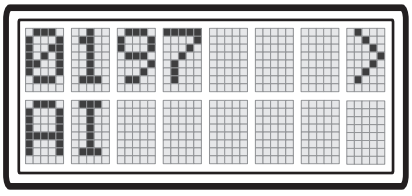
The following warning flags are available for each animal:

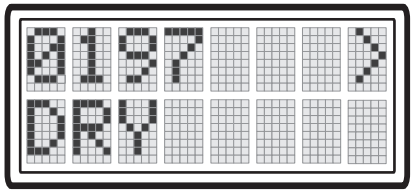
- AI - Artificial Insemination
- VET - Vetinery Attention/Illness Treatment
- MAS - Mastitis
- DRY - Dry-Off
- TEST - Shows Up After X Days (User Set) Of Mastitis Flag Being Set
- BULLING - Expected In Heat
- SLOW - Slow Milker

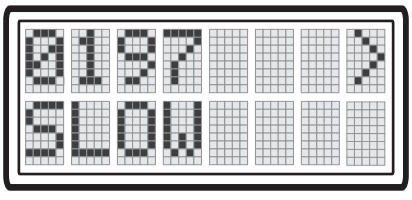
For a more detailed explanation of the warning flags please refer to the MicroM3S manual.

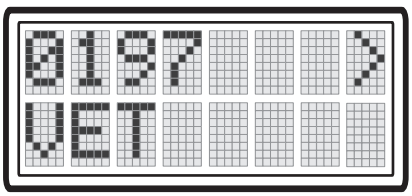
! The warning flags are not a foolproof method of identifying problem animals. The use of red dye on the rear of the animal, is advised where milk must be discarded.

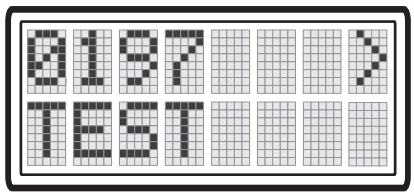


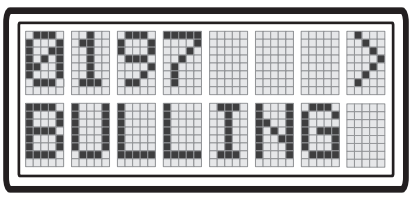












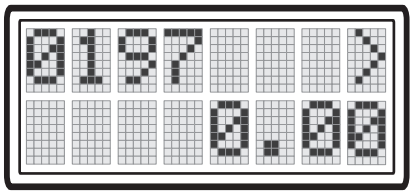
Using the Milk Meter System with the MicroM3S Continued

Further information about each animal can be accessed from the main screen on the Milk Meter control box by pressing either the LEFT or RIGHT keys at any point during the milking process.

If the LEFT and RIGHT keys are being used to change sides on swingover parlours;

Milk meter milking animal on left side - Press LEFT ⇜ key to access further information.

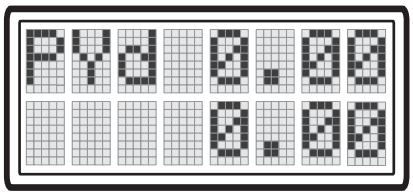
Milk meter milking animal on right side - Press RIGHT ⇝ key to access further information.



Previous Milk Yield

The Previous Milk Yield (PYd) for each individual animal is available by pressing the LEFT ⇜ or RIGHT ⇝ keys (see notes above).

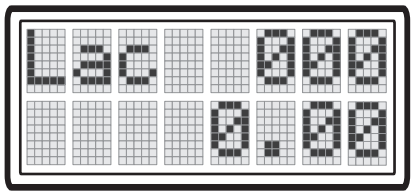
- Press the LEFT ⇜ or RIGHT ⇝ keys (see notes above) to step to the Lactation Number screen.
- Or, press the LEFT ⇜ or RIGHT ⇝ keys to cycle back to the milk yield screen.



Lactation Number

The Lactation Number (Lac) is the number of days the animal is into the current lactation.

- Press the LEFT ⇜ or RIGHT ⇝ keys (see notes above) to step to the Lactation Number screen.
- Or, press the LEFT ⇜ or RIGHT ⇝ keys to cycle back to the milk yield screen.

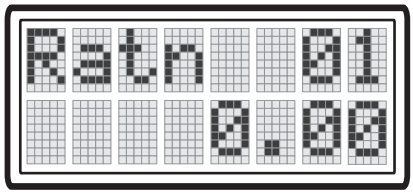


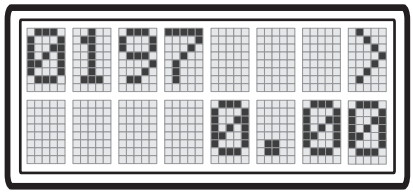
NB - Milk Meter system must be connected to Cowculator For Windows PC software for lactation number to be viewed.

Feed Ration

The Feed Ration (Ratn) is the feed ration value for this animal.

- Press the LEFT ⇜ or RIGHT ⇝ keys to cycle back to the milk yield screen.

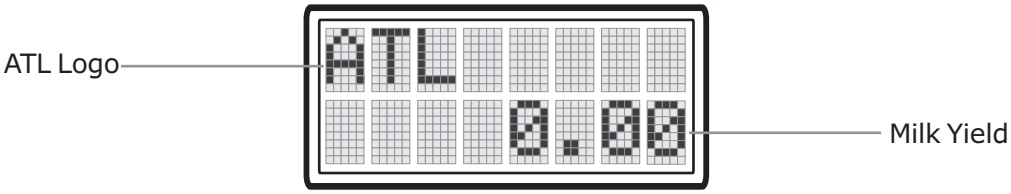




Using the Milk Meter System with the MicroM3S and Auto-ID System

The Milk Meter system can be fully integrated into the MicroM3S parlour control and auto-id system enabling the display of individual animal management information at each milking point; for information on using the Milk Meter stand-alone turn to page 3 or with the MicroM3S please see page 7.

Control 'Power Up'



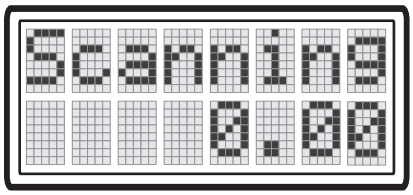
Extra Functionality Available with MicroM3S and Auto-ID System Integration

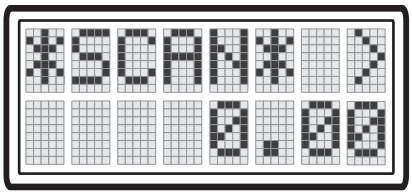
Before starting the actual milking procedure, the Milk Meter control shows the number of the animal at each individual milking point, along with the provision of warning flag, previous milk yield, lactation number and feed ration information.

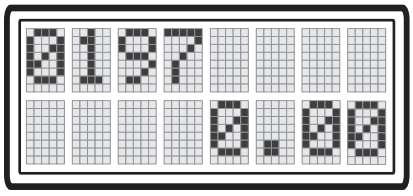
The following sections provide information on these functions

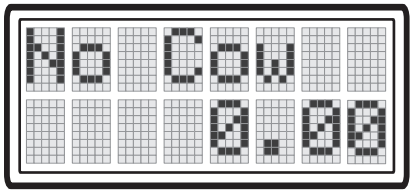
Displaying Animal Numbers

- The animal number is displayed in the top left hand corner of the LCD display. As the animals are read by the auto-id system, the animal number is sent to the relevant Milk Meter control.
- During the scanning of each side by the auto-id system, either SCANNING or *SCAN* will be displayed on the milk meter control until an animal has been identified in that stall.
- If no animal is entered for the stall, either ATL or No Cow / No Sheep or No Goat is displayed.
- Make sure the correct animal number is present at the stall before starting milking.









Using the Milk Meter System with the MicroM3S and Auto-ID System on Doubled Up Parlours

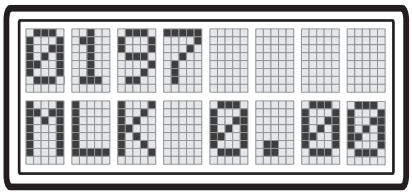
The Milk Meter system has two milking modes - automatic and manual. The automatic milking mode allows the user to start the milking process and have it completed automatically (i.e. If ACR's are present, the clusters are lifted off the animal and milking is finished without user intervention). Manual milking mode allows the user to control the whole milking process from start to finish.

The Milking Procedure

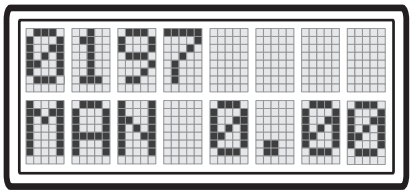
- Acknowledge any warning flags set against the animal.
- Press the MILK key to start milking in automatic mode:

  The display will show MLK in the bottom left hand corner.

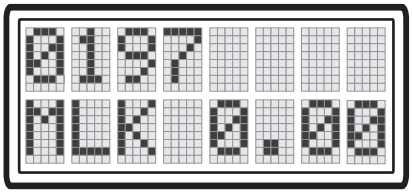
  If automatic cluster remover (ACR) connected, the cluster will be dropped and the shut-off valve opened applying vacuum to the teat cups.



  The ACR can be raised or lowered in automatic mode independently of milking by pressing the MANUAL key and either the RIGHT (UP) or LEFT (DOWN) key respectively



- The MANUAL key can be pressed during automatic milking to put the meter into manual mode (MAN is shown on the LCD display). This can be used if the cluster is kicked off, pressing the MANUAL key continues milking without zeroing the yield (NB - There is no ACR operation in manual mode).



- During manual mode the MANUAL key can be pressed again to return to automatic mode. The display will show 'MLK' in the bottom left hand corner of the display and the yield will not be zeroed.
- **IMPORTANT -** Do not leave the milk meter in manual milking mode when starting to scan a new side using the auto-id system. If this happens, the milk yield will start at the previous animal's milk yield instead of zero and therefore be incorrect.

Using the Milk Meter System with the MicroM3S and Auto-ID System on Swingover Parlours

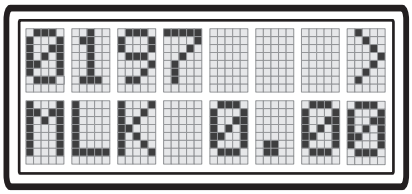
The Milk Meter system has two milking modes - automatic and manual. The automatic milking mode allows the user to start the milking process and have it completed automatically (i.e. If ACR's are present, the clusters are lifted off the animal and milking is finished without user intervention). Manual milking mode allows the user to control the whole milking process from start to finish.

The Milking Procedure

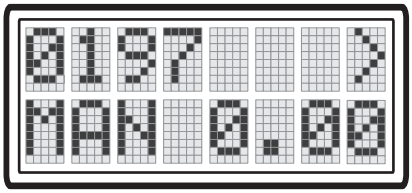
- Press either the LEFT or RIGHT key to select which side the animal is being milked on or swing the arm to the side to be milked (if have swingover switches installed)
- Acknowledge any warning flags set against the animal.
- Press the MILK key to start milking in automatic mode:

  The display will show MLK in the bottom left hand corner.

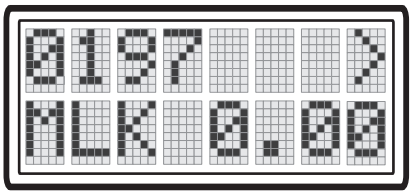
  If automatic cluster remover (ACR) connected, the cluster will be dropped and the shut-off valve opened applying vacuum to the teat cups.



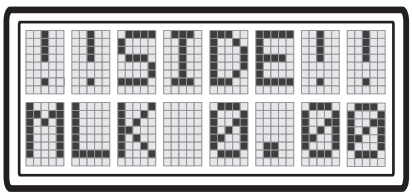
  The ACR can be raised or lowered in automatic mode independently of milking by pressing the MANUAL key and either the RIGHT (UP) or LEFT (DOWN) key respectively



- The MANUAL key can be pressed during automatic milking to put the meter into manual mode (MAN is shown on the LCD display). This can be used if the cluster is kicked off, pressing the MANUAL key continues milking without zeroing the yield (NB - There is no ACR operation in manual mode).



- During manual mode the MANUAL key can be pressed again to return to automatic mode. The display will show 'MLK' in the bottom left hand corner of the display and the yield will not be zeroed.
- **IMPORTANT -** Do not leave the milk meter in manual milking mode when starting to scan a new side using the auto-id system. If this happens, the milk yield will start at the previous animal's milk yield instead of zero and therefore be incorrect.
- **IMPORTANT -** If the swingarm is mistakenly moved past the swingover switch magnet, whilst the meter is milking, the meter will continue to milk and the display !!SIDE!!. This will continue to displayed until the swingarm is moved back past the magnet.



- If the swingarm was correctly moved past the magnet, press the MILK key to stop the milking procedure, return the arm to the correct side and press MILK key to re-start the milking.

Using the Milk Meter System with the MicroM3S and Auto-ID System Continued

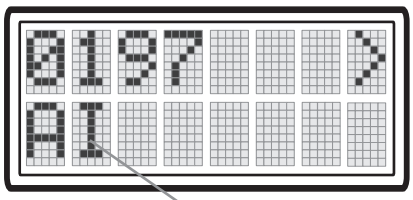
Acknowledging Warning Flags

Any animal identified that has a warning flag set against it will cause the Milk Meter control to warn the operator. The warning is shown flashing in the lower half of the display.

- To acknowledge the warning, press the FLAG key.

  NB - If there is more than one warning set against a animal, the next warning flag in the sequence will be displayed on the control.

- Milking cannot commence until this warning has been acknowledged by the operator.



Setting and Clearing Warning Flags

- Ensure the correct animal number is displayed.
- Press the FLAG key to view the warning flags.

  Press the RIGHT key to step through the warning flags.
- If a warning flag is set against a animal, a cross will be in the top right of the LCD display.
- To set or clear a warning flag against a animal, press the FLAG key.
- To step to the next warning flag, press the RIGHT key.
- To exit from the warning flags routine, press the LEFT key.

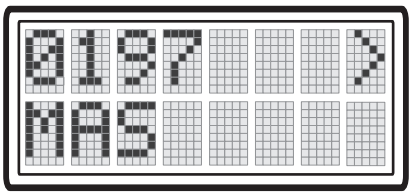
Warning Flags Available

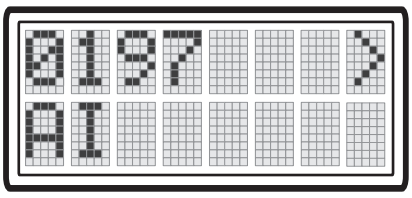
The following warning flags are available for each animal:

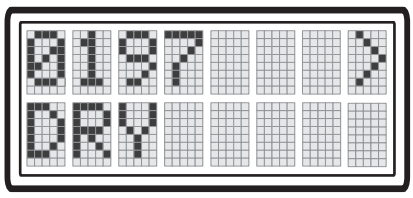
- AI - Artificial Insemination
- VET - Vetinery Attention/Illness Treatment
- MAS - Mastitis
- DRY - Dry-Off
- TEST - Shows Up After X Days (User Set) Of Mastitis Flag Being Set
- BULLING - Expected In Heat
- SLOW - Slow Milker

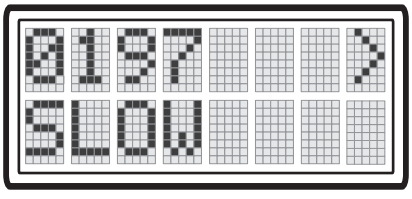
For a more detailed explanation of the warning flags please refer to the MicroM3S manual.

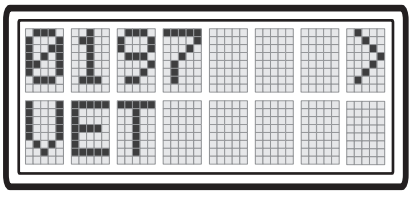
The warning flags are not a foolproof method of identifying problem animals. The use of red dye on the rear of the animal, is advised where milk must be discarded.

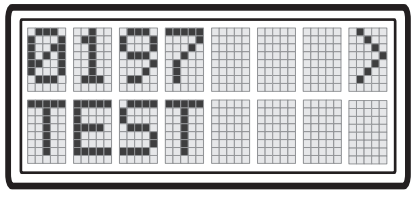


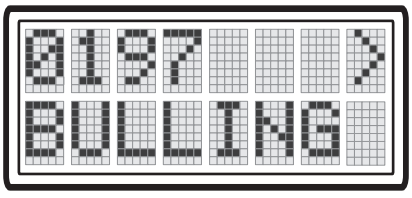












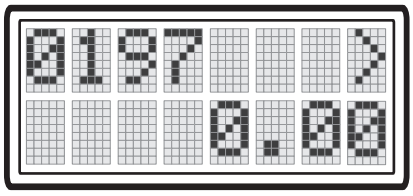
Using the Milk Meter System with the MicroM3S and Auto-ID System Continued

Further information about each animal can be accessed from the main screen on the Milk Meter control box by pressing either the LEFT or RIGHT keys at any point during the milking process.

If the LEFT and RIGHT keys are being used to change sides on swingover parlours;

Milk meter milking animal on left side - Press LEFT key to access further information.

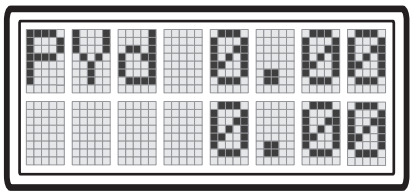
Milk meter milking animal on right side - Press RIGHT key to access further information.



Previous Milk Yield

The Previous Milk Yield (PYd) for each individual animal is available by pressing the LEFT or RIGHT keys (see notes above).

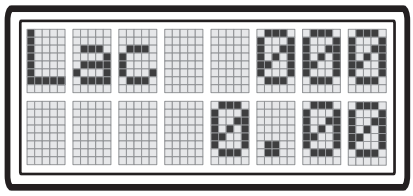
- Press the LEFT or RIGHT keys (see notes above) to step to the Lactation Number screen.
- Or, press the LEFT or RIGHT keys to cycle back to the milk yield screen.



Lactation Number

The Lactation Number (Lac) is the number of days the animal is into the current lactation.

- Press the LEFT or RIGHT keys (see notes above) to step to the Lactation Number screen.
- Or, press the LEFT or RIGHT keys to cycle back to the milk yield screen.

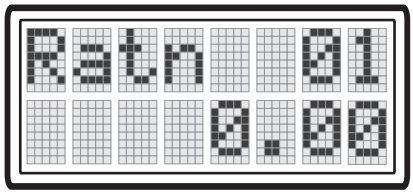


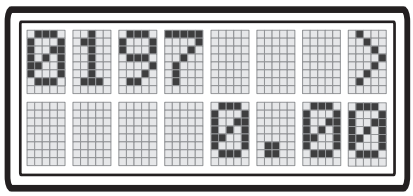
NB - Milk Meter system must be connected to Cowculator For Windows PC software for lactation number to be viewed.

Feed Ration

The Feed Ration (Ratn) is the feed ration value for this animal.

- Press the LEFT or RIGHT keys to cycle back to the milk yield screen.





The End of Milking Procedure

For Each Individual Milking Point After Each Individual Animal Has Finished Milking

When the Milk Meter system is in automatic milking mode, the milk flow rate is continuously compared against the Automatic Cluster Removal (ACR) setting and when the rate falls below the setting the end of milking routine is started.

- The shut-off valve is closed.
- The system then waits for the user-set time in the Vacuum Delay setting to allow the vacuum to dissipate.
- The ACR ram activates and gently pulls the cluster off the animal.
- If the Purge setting is on, the shut-off valve is opened momentarily to allow a blast of air into the cluster and to purge any remaining milk into the line.

For Complete System After Herd Has Finished Milking for Systems with the MicroM3S and the Automatic Identification System

When the whole herd has finished milking, the milk yields measured during the milking must be moved to the relevant storage locations in the MicroM3S.For systems with a wash box, pressing the wash key also performs 'Yield Clear' on the MicroM3S. Otherwise:

- If there is no Wash Box on the system, press and hold the 'SHIFT' key, then press the 'YIELD' key on the MicroM3S to complete the operation.

- If there is a Wash Box on the system, the 'Yield Clear' on the MicroM3S will occur automatically when the system is put into Wash Mode via the Wash Box.
- The display will then show 'yld clear'.

The daily and total yield figures are then able to be calculated at the 11.00am housekeeping time by the MicroM3S control.

Cleaning the Milk Meter

The Milk Meter has been designed to be flood washed in the normal milk flow direction, with the control box controlling the pattern of washing.

Wash Requirements

- Always refer to the chemical suppliers instructions and safety procedures.
- After milking, clean the clusters and wash jetters externally with a hot santitant solution.
- The Milk Meter system requires 0.5 litres of cleaning liquid per point per cycle.
- There are three washing cycles; pre-rinse, main wash and final rinse.
- The hot water used must be of a suitable temperature to match the working temperature of the cleaning chemical being used.
- Please ensure that the correct temperature is maintained according to the chemical suppliers instructions
- A milkstone remover wash must be used at least once a week or sooner if recommended by the chemical supplier. Please use an approved brand and follow the instructions carefully.
- The main wash with cleaning agent should circulate for a minimum of 8 minutes at a temperature of no less than 40°C unless advised differently by the chemical supplier.
- Never mix dairy chemicals; it is extremely dangerous.

Wash Routine

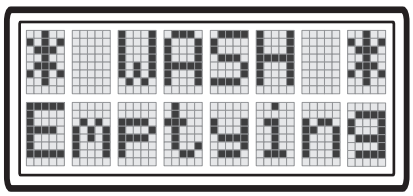
- The wash routine ensures that the Milk Meter is washed effectively. There are three phases; flooding, emptying and cycling.

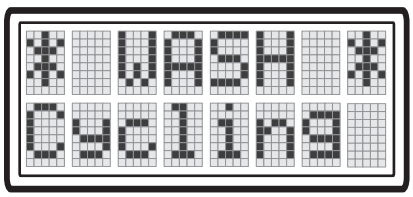
  Emptying - Ensures that the milk meter is emptied even if very pure water is being used for the rinse.

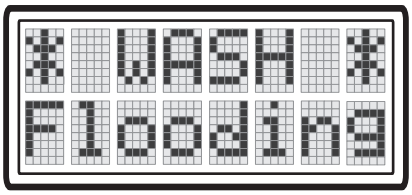
  Cycling - Replicates the normal operation of filling and emptying the milk meter using the sensors to measure the liquid level.

  Flooding - Ensures that all the inner surfaces of the milk meter are flushed with the wash liquid.

- At the end of the wash routine there is a forced emptying and a purge of the milk pipe to the cluster to ensure that the milk meter is always empty before milking.







The Wash Routine - From Milk Meter Control

The Milk Meter can be individually set into the wash routine at each milking point from the Milk Meter control box.

NB - Please read page 15 regarding the wash routine requirements before undertaking the wash routine.

The Wash Routine Procedure - Wash Mode

- Lower the cluster manually by pressing the MANUAL  and LEFT (DOWN)  keys simultaneously.
- Place the cluster shells into the wash jetters.
- When all of the clusters are seated correctly into the jetters, start each individual milk meter into the wash routine.
- Press the WASH key to put each individual milk meter into wash mode.

  NB - The wash routine for each individual milk meter does not have a time limit and has to be manually exited.
- Press the WASH key to exit each individual milk meter from wash mode.

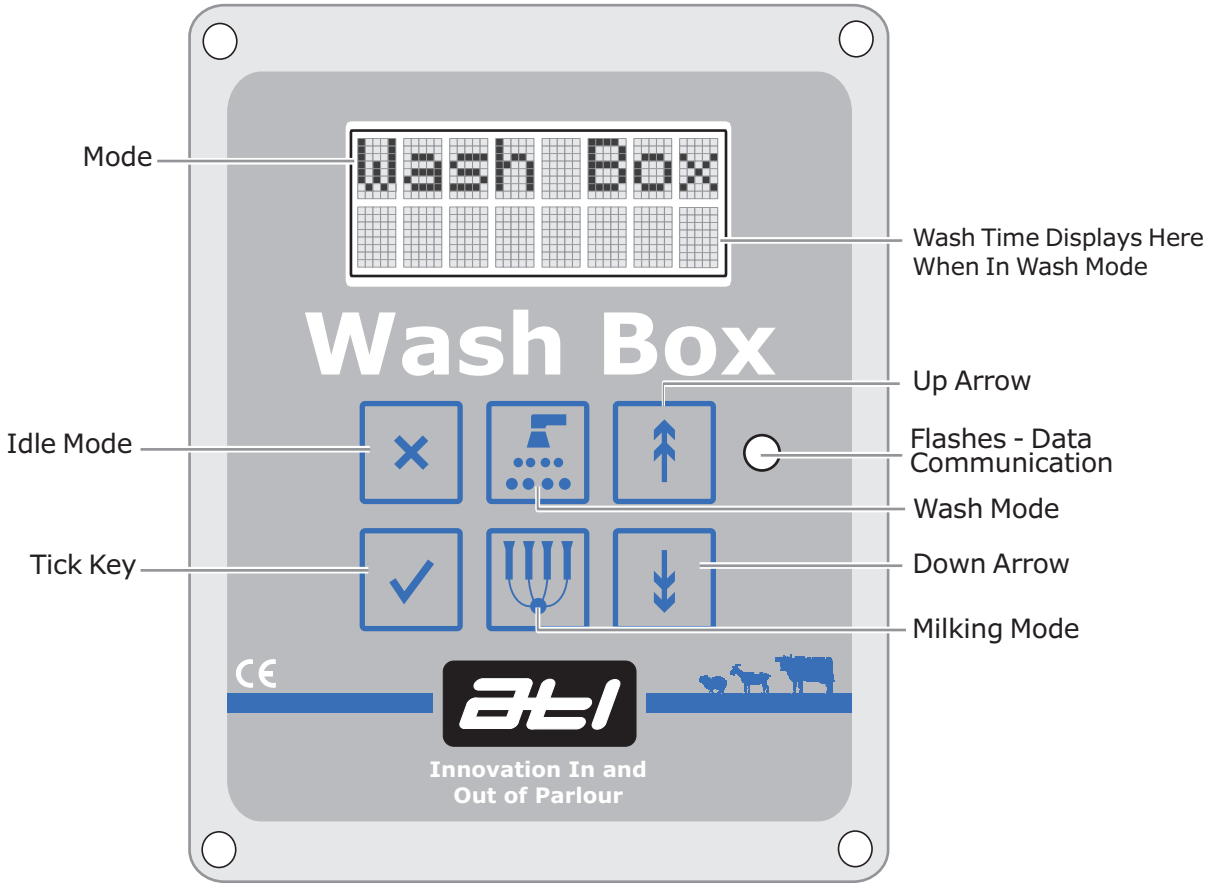
  NB - All wash circulation must have finished prior to wash mode being exited.

The Micro Wash Control

The Micro Wash Control is the electronic display which allows the whole milk meter system to be put into wash or milking modes.

It can be used stand-alone or in conjunction with the MicroM3S Memory Control.

The keys and display are shown in the illustration below:

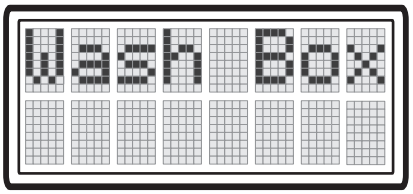


Micro Wash Control Features:

- Wash mode.
- Idle mode.
- Milking mode.
- User set wash time.
- Displays countdown wash timer.

The Wash Routine - From the Wash Box

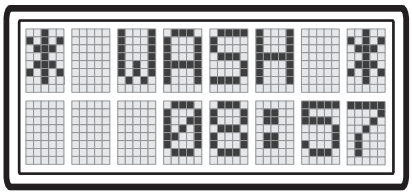
The Milk Meter system can be set into the wash routine from the Wash Box.



NB - Please read page 15 regarding the wash routine requirements before undertaking the wash routine.

The Wash Routine Procedure - Wash Mode

- Lower the cluster by pressing the MANUAL and LEFT (DOWN) keys simultaneously on each Milk Meter control and place the cluster shells into the wash jetters.
- When all of the clusters are seated correctly into the jetters, start the wash routine.
- Press the WASH key on the Wash Box to put the milk meter system into the wash mode.



The wash routine will run for a preset time set by the installing dealer; for information on setting up the wash routine run-time please see the Milk Meter Installation manual and the Wash Box section.

- Once the wash routine has finshed, the Micro Wash Control will automatically switch the milk meter system into IDLE mode.

NB - Idle mode turns all solenoids off and puts the system into standby.

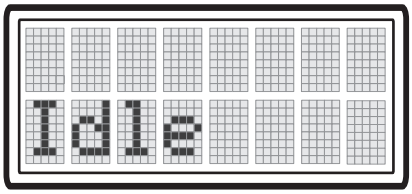
- Press the CROSS key to manually exit from the wash routine and go into idle mode.

NB - All wash circulation must have finished prior to the wash routine being exited.

Idle Mode

Idle mode turns all solenoids off and puts the system into standby.

- Press the CROSS key to put the milk meter system into idle mode.

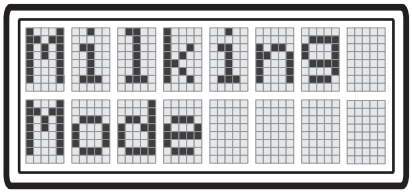


NB - To go into either wash mode or milking mode you must be in idle mode; you cannot go straight from wash mode into milking mode or from milking mode to wash mode.

Milking Mode (also see Cumulative Milk Yield on Page 18B)

Milking mode causes the shut-off valve to close, pulls the milk meter plunger down, the ACR output to turn on and the clusters to be pulled up ready for milking.

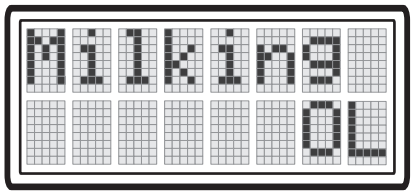
- Press the MILKING key to put the parlour into milking mode.
- To exit from milking mode press the CROSS key andthis puts the system into idle mode.



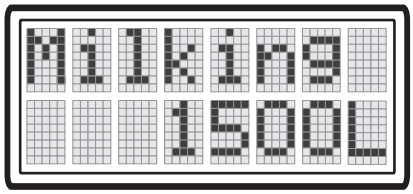
Cumulative Milk Yield for Stand-Alone Milk Meter Systems

Cumulative milk yield allows the comparison of the milk meter total yields with bulk tank readings. Therefore, providing an easy way for the accuracy of the milk meter system to be assessed on stand-alone systems.

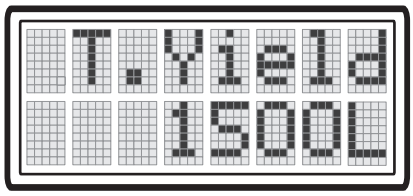
- Press the MILKING key to put the parlour into milking mode.



- The Wash Box will show Milking 0L.
- As the milking progresses, the total will automatically increment.
- Once the milking has finished, the total number of litres that the animals have yielded is displayed (i.e. 1500L equals 1500 litres).



- If the Wash Box is not in Milking Mode, press the RIGHT key to display the total milk yield.



- The milk total can be set to zero either automatically or manually. The automatic zeroing of the milk yield occurs each time the Wash Box enters Milking Mode and therefore will only total the yield for one milking at a time.
- To automatically reset the milk yield total, the Auto Yield function should be set to Yes.
- The Auto Yield function is found in the Wash Box setup routine (see the Milk Meter Installation Manual).
- Alternatively, to manually clear the milk yield total, hold down the TICK key and press the RIGHT key.