



THE XYLO  
**DID YOU KNOW**  
HANDBOOK.

## 4

## DIGITAL DRIVE ASSIST SYSTEM DISPLAY

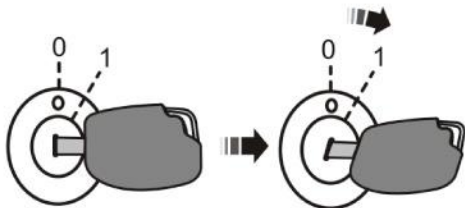
DDAS is a special system that lets you monitor your Xylo's performance. It is so conveniently located that not just the driver, but even the passengers can see it. This system continuously monitors the vehicle's conditions and alerts the driver and passengers by displaying it on to the screen.

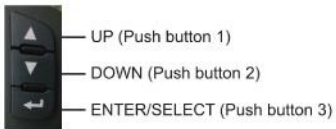


**DDAS OPERATION**

DDAS will start only after the vehicle runs for 500 m and under the following conditions:

- Battery power supply is resumed, if it was disconnected
- Fitting of DDAS fuse into its location, if it was removed
- If the DDAS system was reset



**TURN THE IGNITION ON****THE SYSTEM BOOTS AND DISPLAYS THE FOLLOWING:**

- Mahindra logo for 10 seconds
- Then it will display 'Welcome to Xylo' for 10 seconds

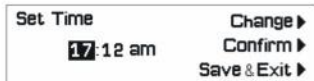
Press UP or DOWN to change the screens.

UP (Push button 1)

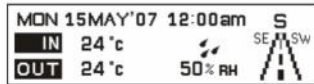
DOWN (Push button 2)

ENTER/SELECT (Push button 3)

This screen appears, if the power supply is re-connected or if the system is RESET.



To set time, refer 'SET TIME' under the 'user setting mode' below.



#### THE SCREEN CONTAINS THE FOLLOWING INFORMATION

- Day, Date and Time
- Cabin Temperature
- Atmospheric Temperature Relative Humidity in the Cabin
- Vehicle Directional Compass



#### THE SCREEN CONTAINS FOLLOWING INFORMATION

- Gear position will be displayed only when the clutch is completely released
- The screen will also display the current vehicle speed



#### THE SCREEN SHOWS THE FOLLOWING INFORMATION

- Distance covered (starting from the last time reset kilometers)
- Distance that the vehicle can travel till the tank is empty

### THE SCREEN SHOWS THE FOLLOWING INFORMATION

- Average speed
- Fuel mileage



### DISPLAY PICTURE OPTIONS

The image above will appear on the display by default. However, you can select images from a select list of images and download them at a Mahindra authorised dealership outlet at the time of the delivery.

## **DISPLAY PARAMETER INFORMATION**

### **DATE AND TIME FEATURE**

The date and time need to be set every time after resetting the battery. The time clock is a part of the DDAS and displays time in hours and minutes.

### **CABIN TEMPERATURE FEATURE**

DDAS displays the cabin temperature with a 1 degree resolution. The feature operates within a range of -30 degree C to 100 degree C with a +/-3 degree C accuracy at the sensor mounting location.

### **ATMOSPHERIC TEMPERATURE FEATURE**

DDAS displays the real time atmospheric temperature with a resolution of 1 degree C.

### **CABIN HUMIDITY FEATURE**

DDAS displays the relative humidity of air in the cabin as % RH with 1 % resolution. The operating range is from 0 to 95 % RH with an accuracy of a +/- 6 % RH at the sensor mounting location. [69]

### **DIRECTIONAL COMPASS FEATURE**

Directional compass information is displayed in a graphical format that has a resolution of 45 degree and an accuracy of +/- 5 %.  
DDAS will not display any direction, if not calibrated.

The directional compass may show wrong indications, if geographical locations change drastically. When you suspect a wrong indication, contact Mahindra authorised dealer for re-calibration.

### **GEAR POSITION FEATURE**

DDAS will not display the gear position till the battery power is on/reset and till the vehicle covers 500 m. After 500 m, DDAS will display the selected gear or neutral position based on the selection.

#### **Note:**

The gear position will be highlighted only, if the clutch is completely released. DDAS will not display neutral or any gear position, if the vehicle is in the neutral gear but still moving. This may not be safe for both the vehicle and the user.

### **VEHICLE SPEED FEATURE**

DDAS will not display vehicle speed till the battery power is on/reset and till the vehicle covers 500 m. After 500 m, DDAS will display the current vehicle speed.



**DISTANCE COVERED FEATURE**

DDAS will display the distance covered in kms and keeps updating after every 1 km. DDAS continues to count the distance covered, irrespective of the ignition cycle until the user resets it using the 'reset trip' in user setting options. Selecting the 'reset trip' will reset the distance to zero and start afresh.

The distance covered will be reset to zero, if battery power supply is reset. When DDAS distance covered display reaches 9999 km, the display will reset to zero during the next ignition cycle.

The distance covered reading on the DDAS is a separate trip meter and measures the distance covered from the last trip and meter.

**DISTANCE TO EMPTY FEATURE**

The DTE (distance to empty) displays the number of kilometers that the vehicle can travel with the available fuel and before the tank becoming empty.

DTE is calculated as per the following calculations.

$DTE = \text{Fuel level} \times \text{Fuel consumption for the last 1 km.}$

For every ignition and till the vehicle covers 1 km, DTE will be as per the fuel economy of previous driving cycle.

If the vehicle follows idle condition, DTE will be updated based on the fuel consumption.

Fuel level used by DDAS for DTE calculations is the actual measured value or the dead volume. The dead volume is used to give some additional mileage even after DTE starts showing the range in dead volume. It will vary with the geographical terrain, hence it is not recommended to drive after DTE shows less than 30 km.

DTE will not be decremented till 500 m after the battery power supply is on or reset to DDAS.

#### **AVERAGE SPEED FEATURE**

DDAS will display 0 kmph till the first 500 m after the battery power is switched on or the system is reset. DDAS would consider the earlier 500 m covered for average calculation.

At the start of an ignition cycle, DDAS will display the previous average speed till the engine rpm crosses over 650 rpm. After this, DDAS will start calculating average speed with the distance covered signal and the time taken for it.

The average speed calculation and the display would exist irrespective of the vehicle speed when the engine is in an idle condition. (RPM  $\uparrow$  650 RPM).

DDAS will display 0 for an average speed till the distance of 500 m but will still calculate the average speed. This avoids the display of large values.

#### **TRIP FUEL MILEAGE FEATURE**

The trip fuel mileage feature represents the vehicle's fuel efficiency, i.e the distance covered shown on DDAS screen no. 3.

The average fuel mileage is calculated and updated on the screen after every 1 km.

#### **INSIDE/CABIN TEMPERATURE AND HUMIDITY (WHERE FITTED)**

DDAS takes 30 to 40 minutes to show optimum information based on previous static and environmental conditions.

The cabin temperature tolerance is  $\pm 3$  degrees while the relative humidity tolerance is  $\pm 7\%$

## USER SETTING MODES

Press and hold Enter/select (push button 3) for 1 second to enter user setting mode. The mode has following screens.



### Note:

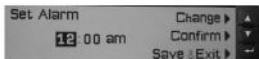
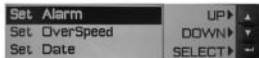
This screen will not show all the settings on one slide. Please scroll up (up/push button 1) or scroll down (down/push button 2) to find more user settings.

On pressing push button 3, the highlighted feature will be selected and the following screens will appear.

## SET ALARM

User can set an alarm on his screen

- Press 'change' to change the value of the highlighted option
- Press 'confirm' to accept the set value and go to the next option i.e. hr/min/am/pm
- Press 'Save & Exit' to go to the next screen



### SET OVER SPEED

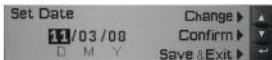
This screen allows the user to select the speed of the vehicle by scrolling down. This over speed warning alert can also be disabled by selecting the 'disable' option.

If 80 km/h is selected and if the vehicle crosses 80 km/h, then a warning alert (audio and video) will be seen on the DDAS screen.



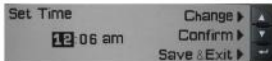
### SET DATE

This screen allows the user to set the DDAS date. Setting the date is similar to setting the alarm as described above.



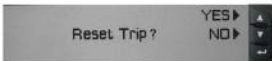
### SET TIME

This screen allows the user to set the DDAS time. Setting the time is similar to setting the alarm as described above.



### RESET TRIP

This will reset the trip meter (distance covered) on DDAS to zero and will even reset the fuel mileage.



## EXIT

This option is used to exit the user setting mode.

## WARNINGS AND ALERTS ON DDAS

DDAS comes with two different types of buzzers for alerts and warnings.

### Type 'A' buzzer

This buzzer rings for 5 times with 10 second time out alerts and 3 times with a 6 second time out alerts. The alerts will stay till the time out or till the concern is rectified.

The warnings covered in this are :

- Seat belt
- Vehicle over-speed
- Door ajar
- (Malfunction Indicator Lamp-MIL) Blink
- Hand brake
- Water in fuel

Another alert sounds off and continues till the alarm is acknowledged.

### Type 'B' buzzer

This buzzer continues till the problem is acknowledged.

Warnings covered in this are :

- Low brake oil
- (Malfunction Indicator Lamp-MIL) on
- Battery not charging
- High engine temperature
- Low engine oil pressure
- Alarm warning buzzer



### THE WARNINGS THAT ARE COVERED IN THIS ARE CLOCK ALARM

Press button 3 to acknowledge the alerts and warnings.

**LOW BRAKE OIL**

Check Brake Fluid, it's Low !

 Apply Hand Brake !

ACK ▶

**MALFUNCTION INDICATOR LAMP BLINKING**

Check Engine ! Contact  
Service Centre

ACK ▶

**HIGH ENGINE TEMPERATURE**

Engine  
Temperature High !

ACK ▶

**MALFUNCTION INDICATOR LAMP ON**

Check Engine ! Contact  
Service Centre

ACK ▶

**LOW ENGINE OIL PRESSURE**

Check Engine Oil Pressure,  
it's Low !

ACK ▶

**WATER IN FUEL INDICATION**

Drain out Water from fuel filter !  
Contact Service Centre !

ACK ▶

**BATTERY NOT CHARGING****Battery Not Charging**

Contact Service Center !

ACK ▶

**VEHICLE OVER SPEED IN  
COMPARISON TO SET SPEED**

Careful, Overspeed !

91 km/h

ACK ▶

**DOOR AJAR (DOOR OPEN ALERT)**

Door Open !

ACK ▶

**ALARM CLOCK**

9 : 55 am

Alarm !



ACK ▶

**PARKING BRAKE ENGAGED**

Hand Brake is Engaged !



ACK ▶

**SEAT BELT REMINDER**

Please Fasten Seat Belt !



ACK ▶



**Note:**

Every alert/warning symbol will blink with a frequency of 0.5 seconds

**Please Fasten Seat Belt !**



**ACK ▶**

This is the alert symbol in the seat belt warning and will blink with a frequency of 0.5 seconds.

If the over speed alert/warning is acknowledged then the warning will not repeat again in the same ignition cycle no matter what.

**Note:**

For a warning that has a time out will not show up after its time out period but will reappear if the fault occurs.

For warnings without a time out, the alert will stay till the fault is recovered or acknowledged.

Incase of multiple warning

For warnings that have a time out, the alert will show up till the time period and for warnings without a time out, it will be in the queue which shall get alerted again.