



CHLOROBITE™
ELECTRONIC MATERIAL SPREADER CONTROLLER



**MATERIAL
SPREADING**

OPERATOR'S MANUAL

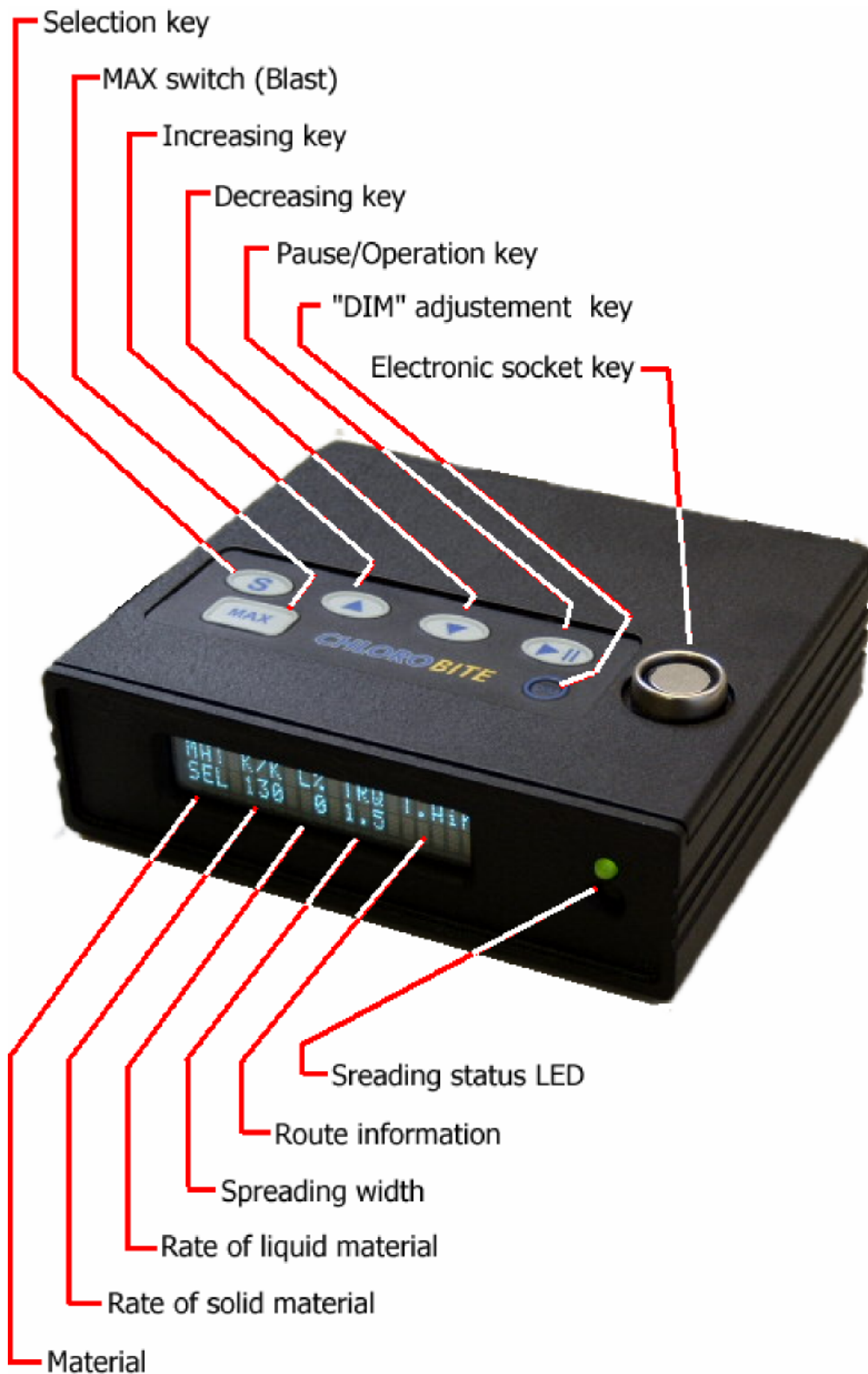
ACE > **ACCENT**
CONTRÔLES
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CHLOROBITE CONTROL CONSOLE



CHLOROBITE GENERAL PRESENTATION

What does the Chlorobite

The CHLOROBITE control was conceived to allow spreading of solid materials (salt, sand, stone dust, etc.) as well as the application of liquid (brine, liquid calcium) on the solid materials. The control system allows selecting spreading rates of solid or liquid material. The chosen material will be applied in a constant and automatic way according to the vehicle's speed.

Chlorobite Console or CHLOROCOM switch panel

The CHLOROBITE console permits the following adjustments:

- Choosing the solid material type to be spread (SLT, SND, MxA, MxB);
- Selecting the spread rate to be applied in K/K (kg/km) or G/M (g/m²);
- Setting the rate of pre wetting (L%);
- Setting the spread width (SPN);
- Starting and stopping a «Blast» any time;
- Putting the system into «Pause» mode.

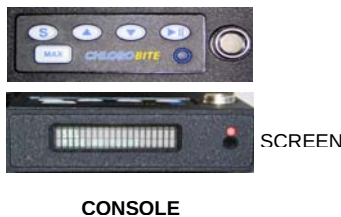
The CHLOROCOM switch panel gives direct access to the same functions directly through the use of simple toggle switches located for the operator's comfort.

Chlorobite Console viewing screen

From left to right the following data are indicated on the CHLOROBITE screen:

- The type of solid material selected (four choices: SLT, SND, MxA, MxB);
- The spread rate in K/K (kg/km, American mode) or G/M (g/m², European mode);
- The pre wet percentage (L%);
- The spread width SPN (spinner speed) in meters;
- An information channel giving details of the run in progress.

Erreur ! Signet non défini.



Chlorobite in cab

START-UP	
1 – STARTING THE SYSTEM (ON THE CONSOLE)	
Start the truck engine	
<i>If the electronic key is not required</i>	<i>If an electronic key is required</i>
Press one of the four keys S or ▲ or ▼ or  on the top of the console for two seconds.	Press a black operator's key to the socket on top of the console.
Result : The screen lights up. The solid and liquid rate columns on the screen flash zero. The LED in the front face of the console is red, indicating the system is in the «Pause» mode.	

To clearly visualise all settings, press Pause/Run once, the indicator LED will turn green and the two fields will show the currently set values. Warning: When the LED is green, any truck movement will get the conveyor and spinner to start

2 – ADJUSTMENTS BEFORE STARTING THE RUN (WITH CHLOROCOM)				
2.1 - Select the material type used				
Press the yellow button (MAT-TYPE) of the CHLOROCOM until the material loaded shows on screen.				
2.2 – Select the spread rate				
2-1 Hold the toggle switch for the spread rate adjustment K / K upwards or downwards until the desired spread rate appears on screen				
2.3 – Adjust the pre wet rate (only available if the pre wet option is activated).				
2-2 Hold the toggle switch for the pre wet rate adjustment L% upwards or downwards until the desired liquid rate appears on screen.				
2.4 – Adjust the spread width				
Hold the toggle switch for the spread width adjustment SPN upwards or downwards until the desired spread width appears on screen.				
Result				
MAT	K / K	L%	SPN	Informations ROUTE
SLT SND MxA MxB	Spread rate selected	Liquid rate selected	Width selected	R-Km, Km distance covered R-Kg, Kg solid quantity R-Lq, Kg liquid quantity T-S, Surface temp. T-A, Air temp.

DURING OPERATION (WITH CHLOROCOM)	
1 – Start spreading	
Push the BLAST /  downwards once	
Result The Led on the front of the console turns green indicating automatic spreading is activated.	
2 – Local overdosing (Blast)	
Push the BLAST /  upwards once	
Result The spread rate increases to the pre programmed rate and flashes while the «Blast» is on. The duration is programmable. At the end of the «Blast» the CHLOROBITE returns to normal operation which is indicated by an audible signal. The «Blast» may be stopped anytime by pushing the «Blast/Pause» switch upwards once.	
3 a– Pausing the spreader (<i>Liquid inactive</i>)	
Push the BLAST /  downwards once	
Result The LED in the front of the console turns red, and the K/K and L% fields start flashing while indicating zero. The controller keeps in memory the previous application rates.	
3 b– Pausing the spreader (<i>Liquid active</i>)	
Push the BLAST /  downwards once	
Result The LED becomes yellow. The liquid rate flashes while indicating zero.	
Push the BLAST /  downwards a second time	
Result The LED turns red. The solid and liquid rate fields flash while indicating zero. Both stop spreading	
4 – Restart the automatic mode after pausing	
Push the BLAST /  downwards once	
Result The LED turns green. Automatic solid and (if active) liquid spreading resume.	

AT THE END OF THE RUN (WITH THE CONSOLE)

1 – Before shutting the truck down

Press the **S** key 4 times (5 times if liquid is active), then select the information you want to note down in the fifth field of the screen.

Press the arrow ▲ and ▼ keys to make appear the information of interest to you.

Result: When «All» is selected the following data will defile on screen.

R-Km : The distance covered by the truck in «Automatic» mode since it was last opened.

R-Kg : The weight of solid material spread since the system was last opened.

R-Lq : The weight of the liquid material spread since the controller was last opened.

T-S : The road surface temperature at the present moment.

T-A : The present air temperature.

You may note them now.

2 – Unloading left over materials

Press the **S** and  keys on top of the console simultaneously for two seconds.

Result

The console screen indicates «UNLOADING»

Press the **S** again.

Result

The console screen indicates «UNLOADING / SPEED OF CONVEYOR» and the conveyor starts.

Press the **S** again.

Result

The console screen indicates «UNLOADING/ SPEED OF SPINNER» and the spinner starts.

Press the **S** again.

Result

The console screen indicates «UNLOADING / SPEED OF LIQUID» and the liquid pump starts.
Note: If Liquid is inactive this part of the menu is eliminated.

Press the **S** again.

Result

Everything stops and the screen shows «UNLOADING»

OPERATION DURING PARTIAL SYSTEM FAILURE

Conveyor speed signal loss (conveyor sensor or cable failure)

INDICATION

The controller will start to beep while the conveyor accelerates to its maximum capacity.
On screen the message: “CONVEYOR NOT WORKING” , followed by “BREAKDOWN
CONVEYOR ACTIVE”

AUTOMATIC CONTROLLER ACTION

The controller operates the sander in open loop mode without feed back from the conveyor sensor. Spreading remains controlled by vehicle speed, material choice and spread rate.

REPETITION

The error message is repeated every 10 km, with a small audible signal.
The controller remains in open loop mode until shut down. It will re enter this mode until the problem at the source is repaired.

WHAT TO DO

Advise your foreman or competent technicians to fix the problem.

Liquid flow meter signal loss (liquid sensor or cable failure)

INDICATION

The controller will start to beep while the liquid pump accelerates to its maximum capacity.
On screen the message: “LIQUID NOT WORKING”, followed
The LED in front of the console will turn orange from green.
The liquid flow signal may be due to empty tanks, a plugged brine filter, plugged nozzles, etc.

AUTOMATIC CONTROLLER ACTION

The pre wet rate is automatically reduced to zero, and the brine pump is stopped.

WHAT TO DO

Advise your foreman or competent technicians to fix the problem.

Exceeding the maximum speed

INDICATION

The controller will beep slowly. The screen shows no particular message.

WHAT TO DO

Slow down.

Exceeding the hydraulic capacity

INDICATION

The controller will beep rapidly. The screen shows no particular message.

WHAT TO DO

Slow down or reduce the spread rate.

ACE

INFOBITE™
Système de gestion des données GPS



ÉCHANGE DE DONNÉES GPS

PROFITS

- Installation simple et rapide
- Accès facile d'exploitation
- Tout type de véhicule
- Interface avec contrôleurs ACE
- Services avec support détaillé

Le système INFOBITE™ recueille les données GPS de votre flotte de véhicules.

INFOBITE™
Système de gestion des données GPS

ACE

CHLOROBITE™
Contrôle de l'épandage et de l'irrigation



ÉPANDAGE

PROFITS

- Installation simple et rapide
- Régulation constante et précise
- Configuration facile et sûre
- Services avec support détaillé et très réactif

Le CHLOROBITE™ est un contrôleur de débit très versatile, simple, sécurisé et complet. Le contrôleur permet de mesurer les quantités de produits et d'assurer un épandage précis, associé avec l'INFOBITE™ GPS ou option, il recueille toutes les opérations d'épandage grâce à un système de reconnaissance GPS et assure l'ajustement de l'épandage.

CHLOROBITE™
Système de gestion des données GPS

ACE

MANIMAX™
Système de commande et de gestion des commandes



COMMANDES

PROFITS

- Contrôle à tout effet
- Contrôle simultané de la grille avant et de l'axe de rotation
- Produits transport/déchargement/décharge

Le système MANIMAX™ de ACE est un système de commande tout à effet pour les véhicules hydrauliques et les axes de rotation, d'un système d'axe de rotation, il permet le contrôle de l'axe de la grille et de l'axe de rotation des grilles.

MANIMAX™
Système de commande et de gestion des commandes

ACE

OPTIVALVE™
Système de commande et de gestion des commandes



HYDRAULIQUE

PROFITS

- Installation simple et rapide
- Haute performance à bas régime moteur
- Facile d'installation
- Composants simples et fiables

L'OPTIVALVE™ est un système de commande tout à effet pour les véhicules hydrauliques et les axes de rotation, d'un système d'axe de rotation, il permet le contrôle de l'axe de la grille et de l'axe de rotation des grilles.

OPTIVALVE™
Système de commande et de gestion des commandes

***Because maintenance of winter becomes...
a work of precision***