

Innovative Technology Limited

Product Change Notification

Product: SMART Hopper Revision 30

PCN Issue Date		27/03/2017	
Notification Classification		➤ Mechanical	
		➤ Electrical	
		➤ Electronic	✓
		➤ Firmware	✓
Modification Introduction Date		Q2 2017	
Product Build Revision	Revision 30	Document Author	John Shaw

1.0 Description of change

The SMART Hopper microprocessor has been changed to an ARM STM32F302 chip. Pictured *fig 1.1*.



fig 1.1

1.1 Reason(s) for change

The new chip has been implemented as the old chip has become obsolete. This new chips will be implemented and the product revision will be incremented to 30.

1.2 Anticipated impact on function, compatibility and reliability.

The technical requirements will not be impacted. With the continued product improvement we have added a configuration button for ease of use. The SD card slot is currently not used and is for future product development.

The revision 30 SMART Hopper has a number of compatibility differences from previous revisions they are listed below.

Compatibility changes:

Dataset/firmware

- Revision 30 datasets and firmware are not backwards compatible to pre-revision 30 units.
- Pre-revision 30 datasets and firmware is not compatible revision 30

Baseplate

- Pre-revision 30 baseplates are only compatible with revision 30 units using TTL communication connector USB is not to be used. Please use a the revision 30 baseplate before attempting to use USB connection.
- There are two versions of the grey plastic PCB cover in production. #1 has same markings as the older baseplate. #2 has the addition of the UL markings. They have identical function and materials used.

Lid

- Lids are not compatible from each version before and after revision 30.

1.3 Product identification

Identification of these changes can be made by checking the product label on the back of the unit. The SMART Hopper revision number has been set to 30.

Dataset

- The dataset names will now contain a M in the dataset naming instead of a 0 examples below *fig 1.2*. We are so incrementing the firmware revision to 6.50.

Front plate

- The front of the SMART Hopper has changed with Revision 30 pictured *fig 1.3*.

Base plate

- The difference in baseplate between the previous revision and the revision 30 SMART Hoppers can be seen pictured in *fig 1.4*.

Lid

- The difference in the lid between the previous revision and revision 30 SMART Hopper can be seen pictured in *fig 1.5*.

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Dataset naming change:

SH3 Below Rev 30	SH3 Rev 30
GBP01007	GBP01M07
EUR05001	EUR05M01

fig1.2



Old Label

New Label Rev 30

fig 1.2

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Old Front



From Rev 30

fig 1.3



Old baseplate

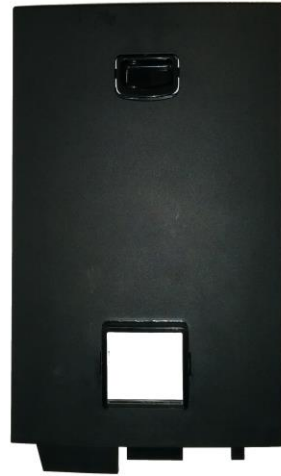


From Rev 30

fig 1.4



Old lid



From Rev 30

fig 1.5