

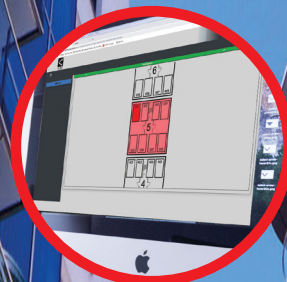


# HUSH PRO

## NEXT GENERATION BS 5839-6 GRADE C DOMESTIC FIRE ALARM SYSTEMS

FOR FLATS & APARTMENTS,  
HOUSES OF MULTIPLE OCCUPATION,  
HIGH-RISE MIXED-USE BUILDINGS & MORE

You're Safe with C-TEC



A NEW APPROACH TO INTEGRATING DOMESTIC & COMMUNAL/LANDLORD FIRE SYSTEMS FROM C-TEC

# WHAT IS HUSH-PRO?

- ▶ HUSH-PRO is a Grade C domestic fire alarm system to BS 5839-6 2019 with its own mains power supply & rechargeable standby battery for use in individual dwellings.
- ▶ It provides easy-to-use detection, alarm, silencing and test facilities and has the ability, when connected to a communal/landlord system, to virtually eliminate false alarms outside the dwelling.
- ▶ Visual alarms, voice sounders, cooker shut-off relays, telecare interfaces, sprinkler flow switches and smoke vent controllers can all be easily interfaced to the system.
- ▶ Any number of HUSH-PRO systems can be connected to a C-TEC 'CAST' communal/landlord addressable fire system allowing secure centrally controlled evacuation signalling to help make Stay-Put or Defend in Place strategies safer.
- ▶ In addition, the Fire & Rescue Service can be provided with manual evacuation controls to centrally activate a dwelling's alarm devices.
- ▶ When used to its full potential, Hush-Pro can report fires, faults and other system data to PCs, tablets and smartphones for action and analysis to allow duty holders to demonstrate due diligence.
- ▶ HUSH-PRO can even show events such as the progress of a fire in real-time on building plans on or off-site.

## GRADE C VERSUS GRADE D SYSTEMS

A Grade C domestic fire alarm system to BS 5839-6 2019 is a higher grade system than the Grade D Mains/Battery alarms typically used in dwellings.

A Grade C system can be used in all dwellings where a Grade D system is specified AND provides additional features and benefits including:-

- The monitoring of all wiring for open and short circuit faults
- The monitoring of individual devices for correct operation and contamination

For a full list of HUSH-PRO Grade C System features and benefits see pages 6 & 7.

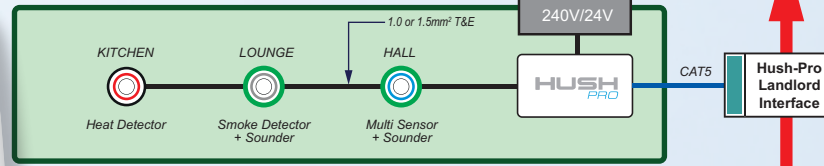
For more information on BS 5839-6 2019 enquire about our new CPD certified BS 5839-6 awareness seminars by emailing [hush-pro@c-tec.co.uk](mailto:hush-pro@c-tec.co.uk)



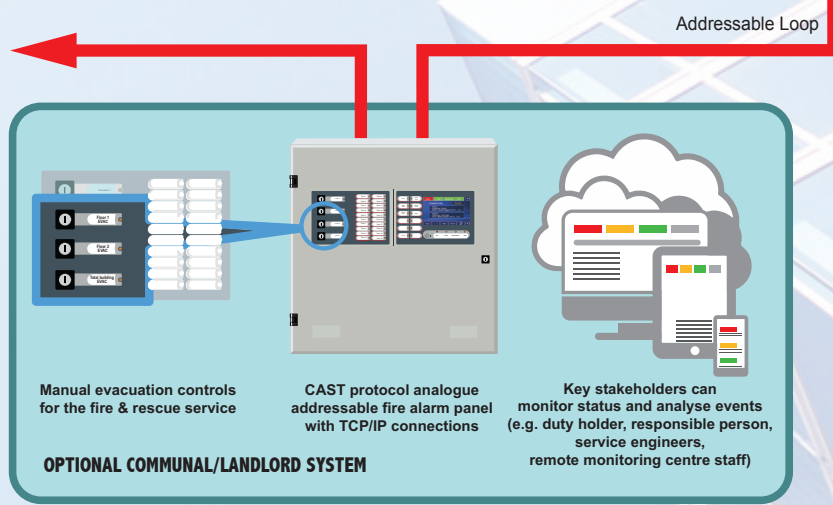
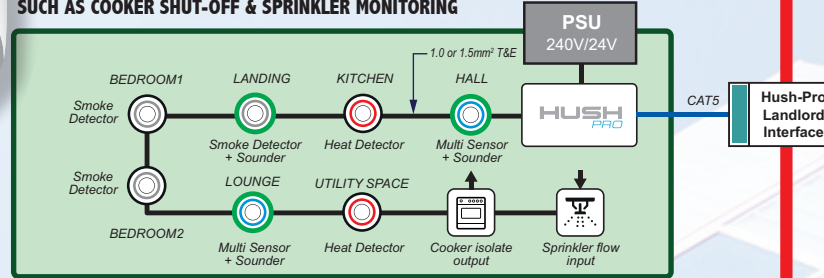
**HUSH**  
PRO

FROM SIMPLE STAND-ALONE DWELLING SYSTEMS TO SOPHISTICATED MULTI-FUNCTION DWELLING SYSTEMS THAT ARE INTERFACED TO A LANDLORD SYSTEM, HUSH-PRO IS THE PERFECT CHOICE

## EXAMPLE HUSH-PRO LD2 SYSTEM



## EXAMPLE HUSH-PRO LD1 SYSTEM WITH ADDITIONAL FUNCTIONS SUCH AS COOKER SHUT-OFF & SPRINKLER MONITORING



## FIRE LEVELS 1 & 2 EXPLAINED

Key to the operation of Hush-Pro is its ability to differentiate between a Fire Level 1 (likely false alarm) and a Fire Level 2 (likely real alarm).

**Fire Level 1** is a domestic fire alarm condition that IS NOT intended to activate or indicate outside the dwelling of origin (e.g. activation of smoke detector).

**Fire Level 2** is a domestic fire alarm condition that IS intended to activate or indicate outside the dwelling of origin (e.g. a heat detector by an apartment's entrance door).

Optionally, a Fire Level 2 condition can be initiated by the coincidental activation of two detectors, a sprinkler flow switch, a heat detector that has been in Fire Level 1 for a prolonged period, or other criteria to suit the application. Uniquely, Hush-Pro's multi sensors can separately signal a Fire Level 1 and a Fire Level 2 condition (e.g. optical trigger = Fire Level 1, heat trigger = Fire Level 2) adding even more versatility to the system.

By differentiating between Fire Levels 1 and 2, Hush-Pro better protects building occupants, builds trust, reduces unnecessary evacuations, avoids unwanted Fire & Rescue Service call-outs and helps make Stay-Put safer.

# HUSH-PRO Operation

As well as raising the typical level of fire protection in a domestic dwelling from BS 5839-6 Grade D to BS 5839-6 Grade C, the real power of HUSH-PRO is unleashed when it is interfaced to a C-TEC CAST 'Cloud-enabled' communal/landlord system.

This section explains how an interlinked HUSH-PRO / C-TEC CAST system typically works.

## COMPREHENSIVE FAULT MONITORING

When a domestic dwelling's HUSH-PRO system is in its normal state, power is applied to the Controller's detection and alarm circuit which is continually monitored for open and short circuit faults. The system's devices are also monitored for correct operation and contamination.

Should a fault or a contamination occur, it is indicated at the dwelling's Controller, on the CAST communal/landlord system and to the C-TEC Cloud so relevant action can be taken.

The occupant can Hush the fault on the domestic system if desired but it will re-sound after 24 hours if the fault has not been cleared.



## UNRIVALLED FALSE ALARM MANAGEMENT

Should a Fire Level 1 (likely false alarm) occur in a dwelling, HUSH-PRO's local Alarm devices activate with a Fire Level 1 message/tone.

The occupant can Hush this local Alarm for up to two minutes by pressing the Controller's Hush button. If the Fire Level 1 alarm re-occurs and it is still a false alarm, this two minute period can be extended.

The communal/landlord system will log the Fire Level 1 Alarm as a supervisory event and report it to the C-TEC Cloud so its status can be remotely monitored. If the Fire Level 1 Alarm clears, the system returns to normal.

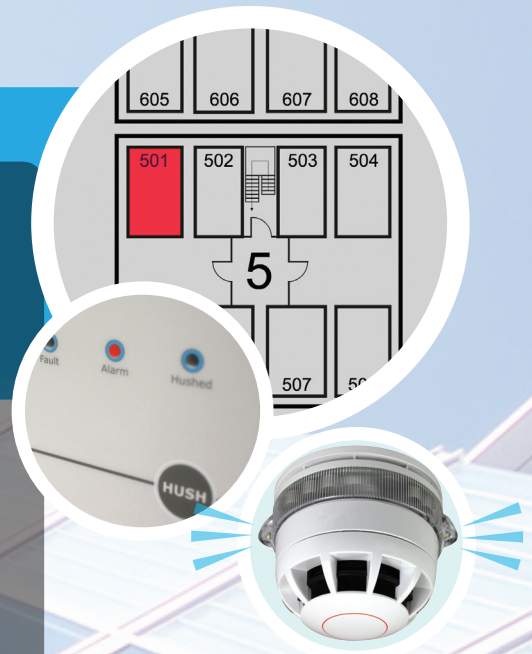


## ENHANCED PEOPLE PROTECTION

Should a Fire Level 2 (likely real alarm) occur in a dwelling, its local Alarm devices activate with a Fire Level 2 evacuate message/ tone that cannot be Hushed by the occupant.

This Fire Level 2 Alarm is also indicated on the CAST communal/ landlord system where it is actioned according to the programmed cause and effects. For example, the building's fire strategy may require a Fire Level 2 condition from a dwelling on a particular floor to activate a Fire Level 2 Alarm in all other dwellings on that floor to automatically evacuate at-risk occupants. Alternatively or in addition, a Fire Level 2 condition may be programmed to activate communal Alarm devices in corridors and stairwells.

All events are also reported to the C-TEC Cloud to allow the incident to be monitored in real time until the Fire & Rescue Services arrive.



## 'STAY PUT' MADE SAFER

Should the Fire & Rescue Service arrive at a building to discover its Stay Put policy has been compromised, they can use (if fitted) secure evacuation keyswitches on the communal/landlord system to assist them in manually evacuating people in an orderly manner.

Turning the keyswitches will signal a Fire Level 2 Alarm in all appropriate dwellings (as programmed) using each dwelling's own HUSH-PRO Alarm devices with all actions indicated on the communal/landlord system and to the C-TEC Cloud.



**FOR A FULL VIDEO DEMONSTRATION OF HUSH-PRO  
VISIT C-TEC'S YOUTUBE SITE AT CTECUKTV**



# HUSH-PRO Features & Benefits

## OPERATIONAL ADVANTAGES

- **Easy-to-access controls** - no need to stand on a chair to Test or Hush devices.
- **Monitored smoke chambers and heat sensors** - continuous fire detector chamber monitoring. Devices will signal a fault if a chamber becomes contaminated or an operational fault is detected.
- **'Hot works' function** - when there is a risk of smoke, pressing Hush deactivates alarm detection in the dwelling for 15 minutes.
- **Automatic programming** - easy 'self-addressing' set up.
- **Voice sounders and visual alarm devices easily added.**
- **Multiple input/output system expansion units** - for sprinkler monitoring, cooker shut-off facilities, telecare systems and more.
- **Each HUSH-PRO dwelling system is effectively stand-alone and can run without connection to any other system** - it may be wired as you would wire a Grade D system, including spurs if necessary.

## SAFETY & SECURITY ADVANTAGES

- **Raises the typical level of fire protection in a domestic dwelling from BS 5839-6 Grade D to Grade C**
- **All wiring is 24V extra low voltage**
- **Only one mains derived power supply per dwelling** - as opposed to one per device for Grade D systems.
- **Secure monitored wiring** - all wiring fully monitored for open and short faults back to the Controller and then to the communal/landlord fire system and the C-TEC Cloud for remote monitoring.
- **All heat elements and smoke detection chambers monitored for correct operation/contamination.**
- **Optional visual alarms devices (VADs) for the hard of hearing.**
- **All detectors, sounders and VADs certified by the LPCB (BRE) to the appropriate EN 54 Standard.**

## ENVIRONMENTAL ADVANTAGES

- **'Greener'** - as much as 50% reduction in the mains power consumption of a typical Grade D system.
- **Fewer batteries** - only one standby battery required per system.
- **Considerably less plastic than a comparable Grade D system.**

## TECHNICAL ADVANTAGES

- **Wiring is monitored for disconnection or device removal** - faults are signalled at the HUSH-PRO controller and, if fitted, the communal/landlord system and the C-TEC Cloud for remote monitoring.
- **Two alarm tones for the safe evacuation of buildings** - Hush Pro alarm devices can generate a local dwelling alarm (Fire Level 1) and a building-wide alarm (Fire Level 2) . The Fire 2 alarm can also be triggered from the communal/landlord system if required.
- **'Two systems, one manufacturer'** - all HUSH-PRO domestic system devices and all of the communal/landlord system's 'CAST' devices are manufactured by C-TEC making integration of the two systems very straightforward via an opto-isolated landlord system interface unit. This approach provides many benefits over alternative solutions, where system integration can be both complex and costly.

## COST OF OWNERSHIP ADVANTAGES

- **Reduced device replacement costs** - HUSH-PRO's separate fire detectors and sounders are less expensive to replace than Mains/Battery alarms. Only the Hush-Pro controller uses a Li-ion battery that can last over 10 years.
- **Uses the same wiring system as a Grade D system** - direct upgrades are possible.
- **Increased service life expectancy** - the typical life of a smoke detector is greater than 12 years due to its built-in drift compensation.
- **Reduced maintenance costs** - all faults are reported at the HUSH-PRO controller and, if connected, to the CAST communal/landlord system and the C-TEC Cloud (see System Integration Advantages below).
- **Reduced running costs** - Up to 50% reduction in the mains power consumption of a typical Grade D system.
- **Reduced disposal costs** - only one battery and less plastic than a typical Grade D system.

## SYSTEM INTEGRATION ADVANTAGES

HUSH-PRO simplifies the integration of BS 5839 Part 1 Communal/landlord and multiple BS 5839 Part 6 Dwelling Fire Detection and Alarm Systems. Key features of integrated systems include:-

- **Programmable Fire Level 1 (a likely false alarm) & Fire Level 2 (a likely real alarm) options** - for example, the heat element of a multi-sensor in the entrance of a dwelling can trigger a separate Fire Level 2 event to the communal/landlord panel for relevant action.
- **Optional Voice Messages** - Fire Level 1 and Fire Level 2 events can be indicated by a combined Tone/Voice Message to help ensure dwelling occupants react appropriately.
- **No intrusive BS 5839-1 maintenance, disruption and management visits in dwellings** - monthly user/occupant test is sufficient.
- **Fire Service evacuation facilities** - options for the Fire and Rescue Services to securely evacuate dwellings if Stay Put or Defend in Place is compromised.
- **Off-site monitoring** - optional monitoring and logging of individual HUSH-PRO dwelling systems via the C-TEC Cloud.
- **Dwelling visits can be scheduled to suit identified risks** - monitoring of the domestic dwelling systems allows for timely maintenance visits, reduced levels of surveillance and increased levels of reliability.
- **Complements 'Stay put' and 'Defend in Place' with a Plan B solution.**

**Want to specify HUSH-PRO for your next domestic fire alarm project?  
Visit [www.c-tec.com](http://www.c-tec.com) or email: [hush-pro@c-tec.co.uk](mailto:hush-pro@c-tec.co.uk)**

# HUSH-PRO System Components

## BS5839-6 GRADE C DOMESTIC FIRE ALARM CONTROLLERS

<b>HP508K</b>	Hush-Pro BS5839-6 Grade C Fire Alarm Controller c/w separate 250mA Double Gang power supply
---------------	---

## DOMESTIC FIRE DETECTION DEVICES

<b>HP414</b>	Hush-Pro Optical + Heat MultiSensor, requires HP408 base
<b>HP416</b>	Hush-Pro Optical detector, requires HP408 base
<b>HP402</b>	Hush-Pro Heat detector, requires HP408 base
<b>HP408</b>	Hush-Pro Detector base
<b>BF-DP</b>	Retrofit decor plate (to cover decorating marks on retro installs)

## DOMESTIC FIRE ALARM SOUNDERS & VISUAL ALARM DEVICES

<b>HP431A/W</b>	Hush-Pro Base sounder
<b>HP456A/W</b>	Hush-Pro Base sounder VAD
<b>HP454A/W</b>	Hush-Pro Base voice sounder
<b>HP457A/W</b>	Hush-Pro Base voice sounder VAD
<b>BF330CTLIDW</b>	White lid for Hush-Pro Base AV devices
<b>BF-DP</b>	Retrofit decor plate (to cover decorating marks on retro installs)

## DOMESTIC I/O INTERFACE MODULES

<b>HP731</b>	Hush-Pro Mains switching I/O module (triggers FL1 local alarm) (Output stage can be used for cooker shut-off)
<b>HP732</b>	Hush-Pro Mains switching I/O module (triggers FL2 evac alarm)
<b>HP734</b>	Hush-Pro Mini I/O module (triggers FL1 local alarm)
<b>HP735</b>	Hush-Pro Mini I/O module (triggers FL2 evac alarm)

## LANDLORD SYSTEM INTERFACE UNITS

<b>HP733/CA</b>	Hush-Pro Landord System Interface (CAST protocol) Compatible with C-TEC's CAST XFP & ZFP fire panels
-----------------	--



HP508K



HP416

HP402

HP414



HP431A/W c/w BF330CTLIDW



HP731



HP733/CA



You're Safe with C-TEC

[www.c-tec.com](http://www.c-tec.com)

C-TEC, Challenge Way, Martland Park, Wigan, WN5 0LD United Kingdom

T: 01942 322744 F: 01942 829867 E: [sales@c-tec.co.uk](mailto:sales@c-tec.co.uk)



Approved Document No. DML0548500 Rev 1. E&OE.