



Phoenix™ Explosion-proof

Uniclass L7626	EPIC M231
CI/SfB (64.11)	X

**Pan & Tilt heads and Camera Housings
for potentially explosive environments**



Video monitoring under extreme conditions



Bewator is a world leader in the manufacture of explosion-proof housings and Pan & Tilt heads. These are typically used in petrochemical, industrial, aerospace, or offshore industries, and generally

on sites where there is a risk of explosion because volatile gases, vapours, mists or dusts are present.

The Phoenix™ range is recognised and chosen internationally by customers who require the best engineered solution for security in hazardous areas.



Critical plant process monitoring



Activity monitoring



Crime/intrusion prevention



Health & safety monitoring



Traffic/crowd monitoring



Terrorism prevention

17 years of proven reliability

Phoenix™ range of explosion-proof housings and Pan & Hilt heads have been used around the world for nearly 20 years. First launched in 1980, the range was chosen because of its engineering performance and reliability, and the equipment is still in use today.

The latest Phoenix™ range takes this performance even higher, and is now not only the replacement of choice for upgrades and systems expansions.

A wide range of applications

Since its launch in 1980, the Phoenix™ range of Pan & Tilt heads and housings have been used in:

- Oil refineries
- Oil tankers
- Oil & gas rigs
- Pharmaceutical plants
- Petrochemical plants
- Rocket launching sites

Safety and Security...

Personnel safety always is our No 1 priority. Whether it be lone or isolated workers (e.g. oil platforms) or processing staff in a chemical plant, Phoenix™ Explosion-proof range ensures that process controls and security levels can be maintained in hazardous areas without endangering the lives of the workers on site



Low running costs

Telemetry Control

Phoenix™ products are available with a range of built-in telemetry receiver options which are compatible with all Bewator telemetry controllers. This eliminates the need and cost of additional ATEX approved explosion-proof enclosures.

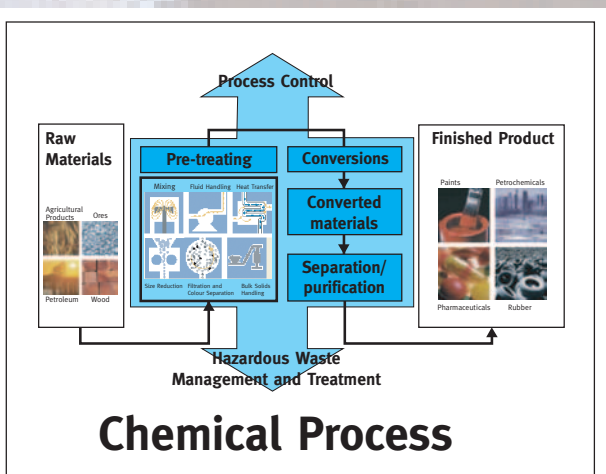


Cost effective Options

Phoenix™ housings are available with sunshield and heaters, and like Integral telemetry receivers, or wipers. The equipment is also supplied with a factory pre-build option of cameras/lenses in housings (Baseefa requirement for IIC certification).

...with a difference

All Phoenix™ housings, which are factory fitted with optional equipment or a camera/lens are delivered with the relevant ATEX certification.



The identification of chemical plants as new potential targets for terrorist attacks and increased critical process monitoring means that Explosion-proof housings and Pan & Tilt heads are more popular in **other CPI segments**, like the **Petrochemical** or **food & beverages** processing industries dealing with volatile vapours or dusts, such as flour, detergents or alcohol vapours.

Phoenix™ Explosion-proof

	<p>FH07B  II 2 GD (EEX d IIB T85°C)</p> <p>Camera Housing</p> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px; text-align: center;">  <small>WEATHERPROOF</small> </div> <div style="border: 1px solid black; padding: 2px; text-align: center;">  <small>WIPER OPTION</small> </div> <div style="border: 1px solid black; padding: 2px; text-align: center;">  <small>TELEMETRY OPTIONS</small> </div> </div>
	<p>FH07C  II 2 GD (EEX d IIC T85°C)</p> <p>Camera Housing</p> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px; text-align: center;">  <small>WEATHERPROOF</small> </div> <div style="border: 1px solid black; padding: 2px; text-align: center;">  <small>WIPER OPTION</small> </div> <div style="border: 1px solid black; padding: 2px; text-align: center;">  <small>TELEMETRY OPTIONS</small> </div> </div>
	<p>FP50B  II 2 GD (EEX d IIB T85°C)</p> <p>Preset Pan & Tilt head</p> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px; text-align: center;">  <small>WEATHERPROOF</small> </div> <div style="border: 1px solid black; padding: 2px; text-align: center;">  <small>PRESETS</small> </div> </div>
	<p>FPHC-40  II 2 GD (EEX d IIC T85°C)</p> <p>Camera head</p> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px; text-align: center;">  <small>WEATHERPROOF</small> </div> <div style="border: 1px solid black; padding: 2px; text-align: center;">  <small>WIPER OPTION</small> </div> <div style="border: 1px solid black; padding: 2px; text-align: center;">  <small>PRESETS</small> </div> <div style="border: 1px solid black; padding: 2px; text-align: center;">  <small>TELEMETRY OPTIONS</small> </div> </div>

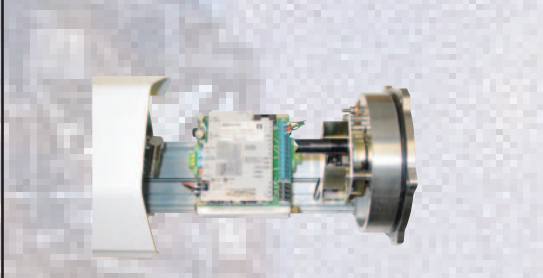
Features & Benefits

- Options for gas Group IIB and IIC explosive gas environment
- Suitable for use in hazardous dust conditions
- Each unit is individually pressure-tested
- Housings include demister and sunshield
- Cost effective wiper options
- Factory pre-build option

Factory fitted optional equipment for Camera Housings (ATEX certified)

- Wiper suitable for IIB or IIC gas group (230ac, 110Vac, 24Vac)
- Built-in telemetry receivers (no need for ATX approved receiver enclosures)
 - 10 function receiver (FH07-RX210)
 - 17 function receiver (FH07-RX217)
- Tamper switch

(For Technical specifications see over leaf).




International Standards

All Phoenix™ equipment is certified to meet the rigorous and exacting European ATEX Directive 94/9/EC, and is manufactured under license from Baseefa. All Phoenix™ products also meet the relevant European standards for electrical and mechanical safety, as well as electromagnetic compatibility.

These standards generally meet or exceed the requirements of most international certification bodies*.

* This certificate is not directly transferable and should be checked for suitability in the country of application

CENELEC / IEC Marking Information - Certification Code

 II 2 G D	EEx d IIB T85°C	EEx d IIC T85°C
ATEX Specific Marking	EEx: For use in potentially explosive environments	
Group II: Non mining product	d: flameproof enclosure according to EN 50018	
Category 2: Performance of protection: Suitable for normal operation and frequently occurring disturbances, or equipment where faults are normally taken into account. Conditions of operation: An explosive atmosphere can occur under normal operating conditions.	IIB: suitable for gas groups IIB & IIA eg ethylene and propane	IIC: suitable for gas groups IIC, IIB & IIA eg hydrogen, acetylene, ethylene and propane
G D: For use in gas/vapour/mist and dust environments	T85°C Temperature class. Based on ambient temperature of 40°C, maximum surface temperature does not exceed 85°C	

Phoenix™ Explosion-proof selection guide

		FP50B	FH07B-30	FH07B-40	FH07C-30	FH07C-40	FPHC-40	
Approvals	ATEX Ⓜ	Pan & Tilt EEx d IIB T85C	Housing EEx d IIB T85C	Housing EEx d IIB T85C	Housing EEx d IIC T85C	Housing EEx d IIC T85C	Camera head EEx d IIC T85C	
Load rating		40kg						
Mounting		Side mount					side mount	
Presets		•	•	•	•	•	•	
Heater			•	•	•	•	•	
Sunshield			•	•	•	•	•	
Factory fitted Wiper			Option	Option	Option	Option	Option	
Optional in-built telemetry receivers	Factory fitted 10fn receiver Factory fitted 17fn receiver		•	•	•	•	•	
Tamper switch			Option	Option	Option	Option	Option	
Dimensions	External	L	448mm	545mm	675mm	545mm	675mm	Housing Pan & Tilt 675mm 448mm
		W	167mm	209mm	209mm	209mm	209mm	209mm 167mm
		H	286mm	186mm	186mm	186mm	186mm	186mm 286mm
	Internal	L		290mm*	420mm*	290mm*	420mm*	420mm*
		W		114mm*	114mm*	114mm*	114mm*	114mm*
		H		94mm*	94mm*	94mm*	94mm*	94mm*
* Please note that specific dimensional and power restrictions apply to cameras, lenses and other equipment installed in the housings								
Weight		19kg	10kg	11.8kg	10kg	11.8kg	11.8kg 19kg	
Environmental	(BS EN 60 529)	IP67	IP67	IP67	IP67	IP67	IP67	
Power supply	230Vac 24Vac 110Vac	FP50B FP50B/L FP50B/U	FH07B-30 FH07B-30/L FH07B-30/U	FH07B-40 FH07B-40/L FH07B-40/U	FH07C-30 FH07C-30/L FH07C-30/U	FH07C-40 FH07C-40/L FH07C-40/U	FPHC-40 FPHC-40/L FPHC-40/U	
Recommended Brackets	BP100	BP100 BS100 Swivel mount	BP100 BS100 Swivel mount	BP100 BS100 Swivel mount	BP100 BS100 Swivel mount	BP100 BS100 Swivel mount	BP100	
Warranty*		3 years	3 years	3 years	3 years	3 years	3 years	

* Extended Warranty. Conditions apply

Factory Fit Options

FH07W	Wiper kit for FH07 housings, 230Vac, 50/60Hz
FH07W/L	As above but 24Vac 50/60Hz
FH07W/U	As above but 110Vac 60Hz
FH07-RX210	10 function-receiver for mounting in FH07 housings 110-230 Vac
FH07-RX217	17 function preset receiver for mounting in FH07 housings 230Vac
FH07-TKIT	Tamper switch for FH07 housings
FH07-CERT	Factory Fit customer-supplied camera and lens* plus ATEX equipment certification for FH07 IIB housings (additional charge per housing)

* Bewator can supply and fit suitable cameras and lenses on request. Contact Bewator Customer Support for details.

Accessories

FH07-CGLAND	Atex II 2 GD (Eexd IIC) compound filler barrier gland for unarmoured cable, suitable for use with Phoenix IIC camera housings. M20 brass CZ121 threaded gland suitable for cables of the following specification: max. cores 14; max. over cores 12.5mm; max inner sheath 14mm; outer sheath min. 9.5mm, max 14mm.
Wl01AB	Spare wiper arm and blade for FH07 housings.
BS100	100 kg Swivel mount adaptor (standard 4" pcd)



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