

# Gallagher Trophy FT Fence Controller

*Trophy FT Fence Controllers actively deter and detect intruder attempts on the perimeter fence. They monitor and control perimeter security by sending regulated high voltage electrical pulses around sections of the perimeter fence.*

## Key features and benefits:

- The high voltage circuit separation ensures that if an intruder attacks one circuit of the fence, the performance of the remaining circuits is not affected
- Through monitoring the voltage, the Trophy FT Fence Controller detects if the earth system is compromised and will raise the appropriate alarm
- The pulse synchronization feature enables the Trophy FT Fence Controller to be integrated with other electric fences in close proximity and operate within standards
- Smart battery backup maintains site security if AC power fails
- Dual Pulse functionality
- Strong, but safe energy output

## High voltage zone separation

If an intruder disturbs a fence zone, the performance of the remaining zones is unaffected. Therefore, if the intruder enters the site and causes an alarm, they cannot easily exit through another zone, as remaining zones will continue to be armed with the full deterrent.

## Pulse synchronization

The pulse synchronization enables the Gallagher perimeter fence to be integrated with other fences in close proximity. This ensures that the system operates within standards for pulse frequency by synchronizing pulses with adjoining fences.

## Tamper protection

Optical tamper protection on the front of the Trophy FT Fence Controller raises an alarm if the cover is removed.

## Dual Pulse deterrent feature

- Provides enhanced detection and deterrence
- Configure the electric fence up to 14kV
- Nearly double the shock deterrent
- Interleaved alarmed-deterrent circuit wiring supported

## Monitored status

The communications status between the Gallagher Controller and the Trophy FT Fence Controller is monitored. If the Trophy FT Fence Controller stops communicating an alarm will be raised at the Gallagher Command Centre.

## Event log

All events relating to Trophy FT Fence Controllers and fence zones, including voltage logging, are date/time stamped and logged in Gallagher system via the Gallagher Controller.

Events for voltage may be logged in response to a voltage change and/or time interval. A comprehensive voltage report is available through Gallagher Command Centre.

## Smart battery back up

In the event of AC power failure the system will automatically switch over to the backup battery. While being powered by the battery, the system will monitor the duration of the power failure and the condition of the battery. The internal battery will be charged automatically on resumption of AC power.

As the battery voltage drops the system reduces the power consumption of the total perimeter system in order to increase the battery life, while still maintaining site security. An alarm will activate if the battery voltage drops below the minimum threshold.

## Configuration options

The following properties can be configured for each Trophy FT Fence Controller:

- Pulse interval ranging from 1.0 to 10.0 seconds
- Power level ranging from 10% to 100%
- Authorization source to synchronize the electric pulse of the Trophy FT Fence Controller with other electric fences in close proximity
- 'Go Slow' settings which define the power level and pulse rate in the event of either an AC power outage or if the battery output is below a pre-set threshold; in either event triggering a warning
- 'Stop battery' level which defines the backup battery voltage level at which the electric pulse will be switched off and alarms activated
- Warnings (indicative of maintenance required)
- Alerts (indicative of a breach requiring urgent attention)

<b>Fence Controller</b>	<b>Voltage</b>	90 - 265 V AC, 50 - 60 Hz
	Power Consumption	40 W
<b>Compatible Controllers</b>		Gallagher Controller 6000, 3000, 5000GL
<b>Aux. DC Output</b>		12 - 15 V 1A (re-settable fuse)
<b>Inputs</b>	4-State Balanced Inputs	2
	Default: using dual 4k7 $\Omega$ termination resistors, configurable	
<b>Outputs</b>	Dry Contact Relays	2, expandable to 6
	Resistive Load	3 A at 24 V DC / AC
	Inductive Load	1 A at 24 V DC / AC
<b>Communications</b>	Between Gallagher Controller (6000, 3000, 5000GL) GBUS port and Gallagher Trophy FT Fence Controller	RS485 at 38.4 Kbits per second
	Wiring format - data	2 wire using (Cat5)
	Wiring format - power	2 wire (gauge selected to suit distance)
	Encryption level	40 bit AES
<b>Cable Specifications</b>	Trophy FT Fence Controller to Controller 6000, 3000 or 5000GL	1200 m (3937 ft) max
<b>Connector</b>	2x RJ12 (allowing loop-through to additional GBUS devices)	
<b>Recommended number of Gallagher Trophy FT Fence Controllers per GBUS port on Gallagher Controller (6000, 3000, 5000GL)</b>		8
<b>Number of fence zones per Gallagher Trophy FT Fence Controller</b>		3
<b>Maximum recommended fence zone length</b>		300m (984ft)
<b>Energizer</b>	4.7 J per circuit stored at 100% power level 2.8 J output per zone independent of the loading of any other Fence Zones	
<b>Max HV Circuit Resistance</b>		300 $\Omega$ *
* While the energy of this unit will allow this length - recommended 300m (984ft) - the classification of risk, the number of elevations in the fence and terrain must dictate the length of a zone for security evaluation.		
<b>Temperature Range</b>		-10° to +40° C (14° - 104° F)
<b>Dimensions</b>	Height: 340 mm (13½"), Width: 460 mm (18¼"), Depth: 120 mm (4¾"), Shipping Weight (Excluding battery): 5.8 kg (12 lb 13 oz)	
<b>Environmental Protection Rating</b>		IPX4
<b>Internal Back Up Battery</b>	Recommended for 8 hours coverage	7 Ahr / 12 V DC
<b>Compliance Standards</b>	C-Tick, CE, EN60335-2-76	
System configuration, network capacities and the volume of system activity affect performance. Please contact Gallagher for advice		

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