



Certificate of Compliance

FIRE PROTECTION EQUIPMENT

This certificate is issued for the following equipment:

GTF-1100U [UV/IR] and GTF-1100T [Triple IR] Flame Detectors

Approval Guide Listing: Category:

Electrical Signaling, Alarm Signal Initiating Devices, Fire Detection, Flame-Actuated

Gastron Co Ltd
23 Gunpocheomdansaneop 1-ro,
Gunpo-Si, Gyeonggi-do
Korea, Republic of

This certifies that the equipment described has been found to comply with the applicable requirements, as stated in the Approval Report(s), of the following FM Approval Standards and other documents:

Approval Standards

Class Number	Date
3260	September 2018
3600	January 2018
3615	January 2018
3616	January 2018

Other Standards

Organization, Designation	Date
ANSI/ NFPA 72	2013
ANSI/IEC 60529	2004


Original Approval Job Identification: PR449205

Approval Granted: 3 January 2019

Related Report:

Subsequent Revisions: PR451934

To verify the availability of the Approved product, please refer to www.approvalguide.com


J.E. Marquedant
VP, Manager of Electrical Systems
FM Approvals
1151 Boston-Providence Turnpike,
Norwood MA, 02062 USA

Date 1 February 2019



Member of the FM Global Group



Certificate of Compliance

Electrical Signaling Alarm Signal Initiating Devices Fire Detection, Flame-Actuated
GTF-1100U [UV/IR] and GTF-1100T [Triple IR] Flame Detectors

Wave Lengths:	GTF-1100T - Triple IR 3.8 - 5.5 μm , GTF-1100U - Ultraviolet 185 - 260nm, Infrared 4.5 - 4.8 μm
Operating voltage:	18-32Vdc [nominal - 24Vdc]
Power consumption:	GTF-1100T - 75 mA [max.] GTF-1100U - 106mA [max.]
Detection Distance:	GTF-1100T - 197ft. [60m] (0.1 m ² n-heptane pan fire), GTF-1100U - 98.4 ft. [30m] (0.1 m ² n-heptane pan fire),
FOV (Field of View):	100°[Horizontal], 100°[Vertical],
Response time:	GTF-1100T - 7.9 sec typical (6.1 sec - 7.9 sec), GTF-1100U - 5.1 sec typical (4.6 sec - 5.1 sec)
False Alarm susceptibility:	Reference technical manual numbers GT-070IM00K [rev. 1] and GT-069IM00K [rev. 1] for details,
Self Test	Automatic and manual built-in self test (B.I.T.)
Relays:	1 Alarm Relay, 1 Trouble Relay: SPST (1 A at 30 VDC or 0.3 A at 125 VAC (resistive load)) Alarm Dry contact relay (De-Energized default selectable normal open or close), Trouble Dry contact relay (Energized default selectable normal open or close),
Interfaces:	RS-485 Interface (MODBUS RTU), 0-20 mA Output,
Status LEDs:	(Bi-Color: red and green), Alarm LED (red),
Hazardous Location rating	Flame Detector GTF-1100a-bcFde. XP/II/1/ABCD/T6 -40°C \leq Ta \leq +60°C; IP66/67 XP/II/1/ABCD/T5 -40°C \leq Ta \leq +75°C; IP66/67 DIP/II, III/1/EFG/T6 -40°C \leq Ta \leq +60°C; IP66/67 DIP/II, III/1/EFG/T5 -40°C \leq Ta \leq +75°C; IP66/67 a = Model: U or T. b = Alarm Relay Type: 1 or 2 c = Trouble Relay Type: 1 or 2 d = Cable Grand Direction: R or L e = Housing: A or S
Flame Simulator:	(Part No. FS-310 for GTF-1100U only), FS-320 for GTF-1100T only)) [not FM examined].
Operation Temperature:	-40°C - 75°C
Operation Humidity:	Up to 95% RH (Non-condensing).



Member of the FM Global Group



Certificate of Compliance

Sensitivity settings:	normal [factory set]
Firmware:	Version 0.54.

Compatible FM Approved control panel for alarm and trouble reporting.



Member of the FM Global Group