

EntelliGuard^{*} TU Trip Unit

NEW! Universal plug & play replacements for legacy trip unit

ABB offers a simplified product solution of one “universal” plug & play trip unit per legacy breaker frame. The trip unit will allow the user to select the sensor size directly on the display or through the free Trip Unit Toolkit software.

Universal Trip Unit Benefits



Reliable and Safe

- Circuit breakers maintain UL listing after conversion
- Mechanical rejection and per-frame settings limits guarantee failsafe protection
- Positive maintenance status indication/test and ZSI¹ testing capability



Installation

- Replacing just the trip unit allows for a significant reduction in installation time
- Windows®-based software allows for quick setting, troubleshooting and testing
- Integral RELT² can be activated either by using a 24V signal or Modbus communication
- Mechanism timing enabled on all models with micro-switch on the flux shifter



Selectivity

- ArcWatch = Safety and Selectivity at the same time
- Instantaneous and Threshold ZSI allows for full selectivity and arc flash protection simultaneously
- Multiple LT curve shapes, broad setting and delay range...flexibility for every protection need



Simplicity

- Just 1-4 catalog numbers can cover an entire switchgear line-up!
- 10 catalog numbers can cover all GE trip units launched since 1981!
- Ships in one day from the factory



Universal Trip Unit

WavePro



AK/AKR






Power Break[®]



¹Zone Selective Interlocking

²Reduced Energy Let Through

Universal Trip Unit: Standard Catalog Numbers

Breaker Type	Frame Size	Trip Unit Function		
			Reduced Energy Let Through (RELT), Monitoring, WaveForm Capture, and Modbus Communication ⁴	Relay Package, I-ZSI, and T-ZSI ⁴
				LSIGDA ³ Switchable ST, Instantaneous and GF (with alarm)
 WavePro	≤ 2000A	GW300L8XXXRXXXX	GW300L8X6RXXXX	GW300L8T8RXXXX
	3000 - 4000A	GW700L8XXXRXXXX	GW700L8X6RXXXX	GW700L8T8RXXXX
	5000A	GW800L8XXXRXXXX	GW800L8X6RXXXX	GW800L8T8RXXXX
 AK/AKR	≤ 2000A	GC300L8XXXRXXXX	GC300L8X6RXXXX	GC300L8T8RXXXX
	3000A/3200A	GC600L8XXXRXXXX	GC600L8X6RXXXX	GC600L8T8RXXXX
	4000A	GC700L8XXXRXXXX	GC700L8X6RXXXX	GC700L8T8RXXXX
	5000A	GC800L8XXXRXXXX	GC800L8X6RXXXX	GC800L8T8RXXXX
 Power Break	≤ 2000A	GA300L8XXXRXXXX	GA300L8X6RXXXX	GA300L8T8RXXXX
	2500-3000A	GA500L8XXXRXXXX	GA500L8X6RXXXX	GA500L8T8RXXXX
	4000A	GA700L8XXXRXXXX	GA700L8X6RXXXX	GA700L8T8RXXXX

³Instantaneous is not switchable for UL489 circuit breakers (example: Power Break)

⁴See DET-722 page 6 for additional information on compatibility and integration of advanced trip unit features.

Available Enhancements



GTURSK

- GTURSK – RELT Switch fully contained kit
 - Meets NEC 240.88
 - Provides full maintenance switch system test
 - Positive feedback display
 - Lockout capability included



GTUTK20

- PLPS4G01 – Modular Power 24V Supply Kit
- GTUTK20 – Test Kit: EntelliGuard TU Test Kit is a lightweight, portable test instrument designed for field-testing of EntelliGuard TU Trip Units.



Trip Unit Toolkit Software

- FREE Trip Unit toolkit software: Windows based software that allows users to configure, set, test and troubleshoot EntelliGuard TU trip units. Download at <https://library.abb.com/>
- EntelliVisor: Modernize aging equipment with a remote equipment visualization solution that is safe...operator access outside the arc flash boundary
 - Easy...intuitive equipment interface with metering, event log & reporting
 - Integrated & scalable...control capability and flexible with other devices beyond trip units

For conversion kits or more trip unit options visit:

<https://electrification.us.abb.com/products/conversion-kits-trip-units/entelliguard-tu-conversion-kit>

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