

# Advanced Grid Infrastructure (AGI) Remote Load Control polyphase interrupter

The AGI RLC polyphase interrupter provides utilities with a means to remotely disconnect and reconnect service to deferrable agricultural, commercial, and industrial services during times of peak demand requirements.

Utilities are being challenged to find creative ways to control power demand on increasingly overtaxed energy delivery networks. Remotely controlling single phase, residential services using an AMI network is routine. With the Elster Advanced Grid Infrastructure (AGI) remote load control (RLC) polyphase interrupter, it is possible to remotely control 3-phase agricultural, commercial, and industrial services up to 480 V as well. The AGI RLC gives utilities the ability to control an increasing number of deferrable loads during peak loading times. By remotely interrupting these polyphase services, the AGI RLC, coupled with Elster's A3 ALPHA® meter, enables utilities to take advantage of both remotely controlling and metering deferrable loads using their AMI network.

## Flexible communications for optimal solutions

The AGI RLC is a robust, polyphase load interrupter switch capable of interrupting 3-phase loads at agricultural, commercial, and industrial locations. The AGI RLC is controlled by the A3 ALPHA meter. The control signal is sent over an EnergyAxis network to the communications board in the A3 ALPHA meter. The communication board can be the

EnergyAxis wireless network interface card (EA\_NIC) for local area network control over the AMI mesh or the wireless WAN interface card for wide area network control over public wireless GPRS or CDMA networks. The signal to disconnect or reconnect is locally controlled by the A3 ALPHA meter using an integrated interrupter control board with remote network control via the EnergyAxis Management System (EA\_MS).

By deploying the AGI RLC into a utility's EnergyAxis system, a utility has a cost-effective control over strategic electrical grid loads during peak demand times, thereby maximizing energy conservation and customer savings.

## Benefits

- Extends conservation efforts beyond single phase, residential applications by supporting polyphase load control for agricultural, commercial, and industrial applications
- Proven AMI technology with Elster's EnergyAxis System is low-risk
- Integrates with and extends existing EnergyAxis systems with smart grid solutions with only incremental cost



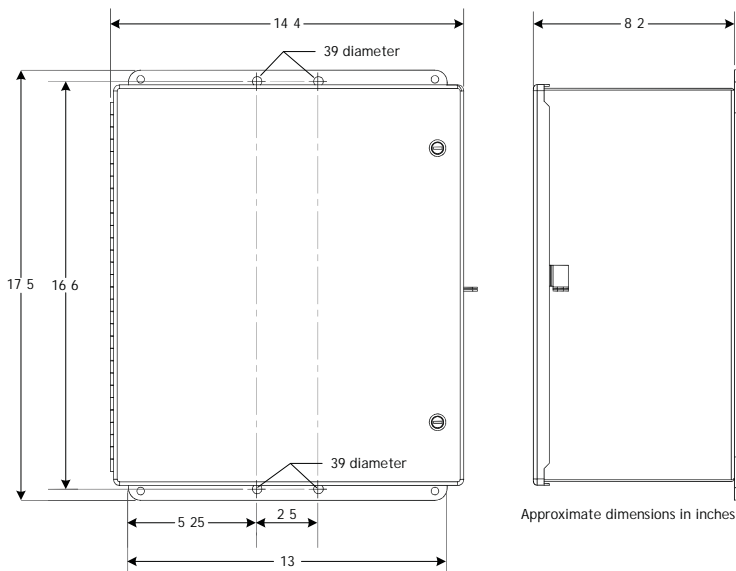
With the AGI RLC, utilities can intelligently manage the grid more efficiently by remotely controlling polyphase loads when the need for electric power is the greatest.

### AGI RLC polyphase interrupter style numbers

	Field numbers										
	1	2	3	4	5	6	7	8	9	10	
AGI RLC polyphase interrupter	7	5		7	3	1	2	2	1	0	
<b>Voltage</b>											
120 V option				2							
240 V option				4							
480 V option				7							
<b>Configurations</b>											
3-wire, 120 A					3						
4-wire, 120 A					4						
<b>Antenna type</b>											
None						0					
Local external						1					
Remote external antenna ready						2					
<b>Control cable</b>											
None							0				
3-foot cable							1				
10-foot cable							2				
<b>Antenna cable</b>											
None								0			
3-foot cable								1			
10-foot cable								2			
<b>Mounting bracket</b>											
None									0		
Pole mount rails									1		
<b>Reserved</b>											
Reserved for future use										0	

### About Elster Group

Elster, a global leader in smart metering and smart grid solutions has delivered over 3 million smart metering devices worldwide with systems located in North America, Europe, Central America, Australia, New Zealand and the Caribbean. Elster smart metering system solutions provide utilities with energy conservation capabilities via demand response programs, smart grid applications, and operational efficiencies resulting in significant value creation across the utility enterprise. Elster has over 7500 staff and operates globally in North America, South America, Europe, Africa, Middle East, and Asia.



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