A PORTAL FOR CRITICAL POWER MONITORING AND CONTROL

Transfer switches provide the ideal location for monitoring critical power systems. Situated between power sources and loads, they offer a pathway for collecting power data and controlling important functions. With its new IO capability, the ASCO 5170 Transfer Switch Communication Module is the key to gathering critical information from peripheral equipment and sharing it in real-time. It is available on ASCO 4000 and 7000 SERIES transfer switches as an Accessory 72EE2.

The 5170 Communication Module unlocks critical power data:

- Enables remote testing of transfer switches and generators

- Sends real-time notices of power system events and alarms

- Provides power information to web application and monitoring systems

Access Power Information to Optimize Operation	Control Critical Power Functions Remotely	Securely Transmit Critical Power Data
Assess device state, event logs, and equipment settings for transfer switches, generators, and more using any networked terminal.	Initiate load transfers between sources through the 5170's web application. Start and stop generators and bypass time delays in real-time.	Transmit and receive using open protocols and the built-in Ethernet switch. Enforce end-to-end security meeting Advanced Encryption Standard.

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- **Remote Transfer Control and Generator Test**
- **Email Notification for Critical Events and Alarms**
- **Remote Monitoring using Modbus and SNMP Protocols**

The **5170 Transfer Switch Communication Module** is an easy-to-deploy solution for connecting, monitoring, controlling, and securing transfer switches in critical power systems.
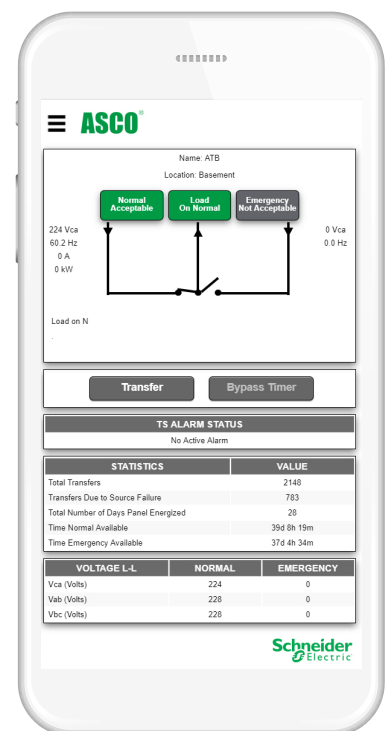
Monitor

- Monitor utility sources supplying low and medium voltage transfer switches
- View transfer switch status and statistics
- Monitor generator status, operating data, safety indicators and shutdowns
- See dynamic one-line displays of transfer switch or bypass-isolation switch
- Aggregate and assess power demand and energy consumption
- View alarms, event logs and active timers
- See pick-ups, drop-outs, time delays, engine exerciser schedule, and feature settings
- Survey status of circuit breakers and surge protective devices

Control

- Remotely exercise and test engine-generators using the Module's web application
- Remotely transfer loads between sources
- Bypass active transfer time delays on demand
- Selectable fail-safe sequences for load control during communication delay or failure
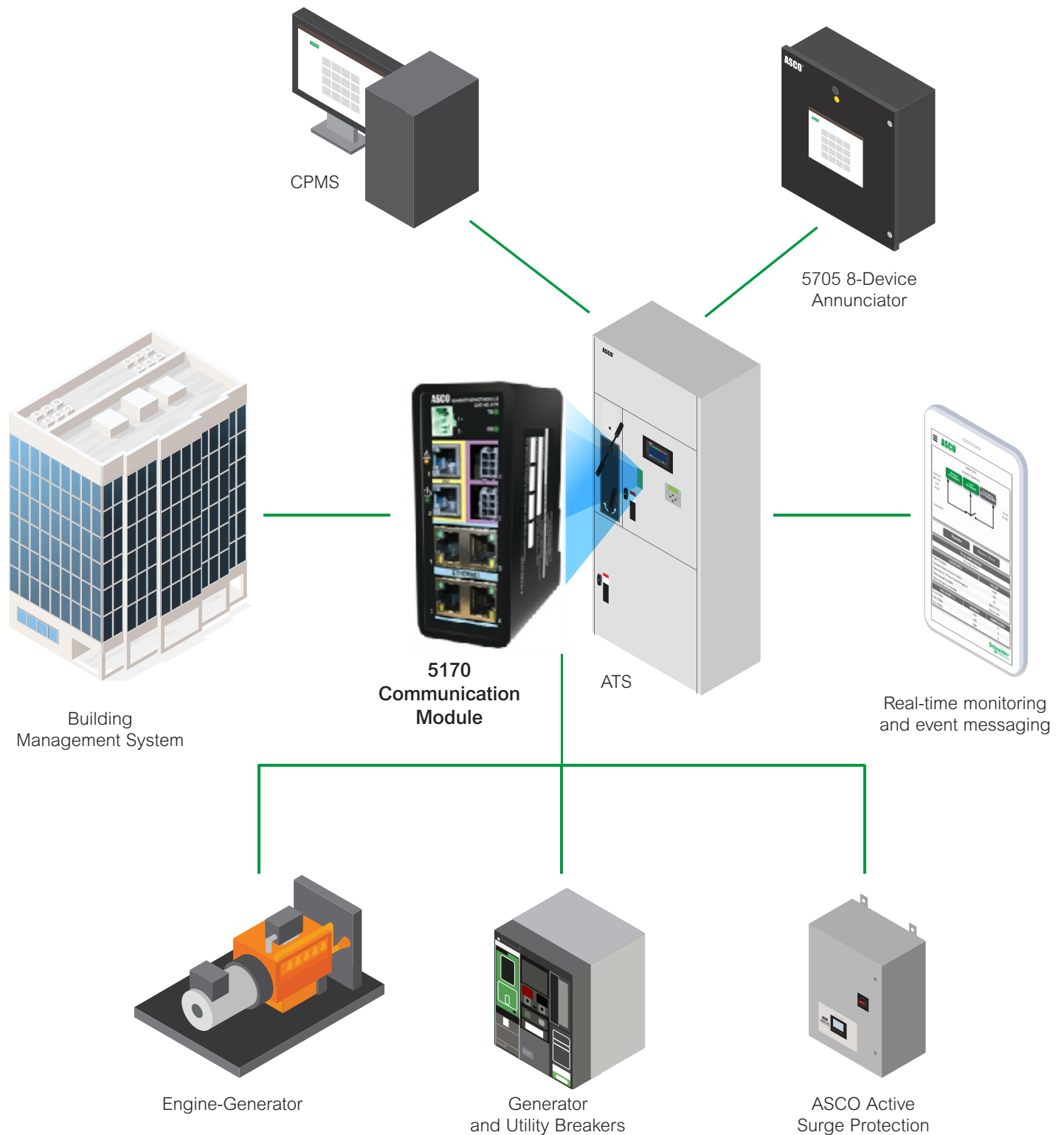
Connect

- Use integral four-port Ethernet Switch to network multiple devices and transfer switches
- Use hard wire contacts to annunciate and control generators, circuit breakers, and surge protective devices
- View transfer switch information on a device-responsive mobile web application
- Use open Modbus and SNMP protocols to share data with power and building monitoring systems
- Send real-time notices via an email server or ASCO's email service
- Use RS485 port to connect the transfer switch controller to legacy monitoring systems using Modbus RTU

Secure

- Manage personnel access to monitoring, control, configuration, and web functions with three user-authentication levels

- Use signed boot loader and firmware to prevent the intrusion of malicious programs

- Use 128-bit encryption to enhance data communication security

- Disable communications module control privileges via administrator level inputs

- Configure data protocols to mitigate probing by network intruders

- Limit and recover from Denial-of-Service attacks

CPMS

5705 8-Device
Annunciator

Building
Management System

5170
Communication
Module

ATS

Real-time monitoring
and event messaging

Engine-Generator

Generator
and Utility Breakers

ASCO Active
Surge Protection

Ordering and Specification Information

Product

Catalog Number	5170
Catalog Name	Transfer Switch Communication Module
Dimensions (Inches)	4.625H x 1.760W x 3.570D
Weight	1 Pound
Mounting	DIN Rail
Redundant Control Power	24VDC

Ports

	Ethernet	RS485
Quantity of Ports	4	1
Type of Ports	RJ45, 10/100 Base TX	2-Wire or 4-Wire
Protocols	Modbus TCP/IP, SNMP, SMTP	Modbus RTU

Ordering Information

Item	Designation	Description
Accessories for New Equipment		
Transfer Switch Accessory	72EE2	5170 Communication Module
ATS Basic Technology Package	150A	- 5170 Communication Module - 5210 Digital Power Meter - UPS for controller and metering
ATS PM8000 Technology Package	150A8	- 5170 Communication Module - PM8000 Power Quality Meter - UPS for controller and metering
ATB Basic Technology Package	150B	- 5170 Communication Module - 5210 Digital Power Meter - Bypass monitor - UPS for controller, bypass monitoring and metering
ATB PM8000 Technology Package	150B8	- 5170 Communication Module - PM8000 Power Quality Meter - Bypass monitor - UPS for controller, bypass monitoring and metering
Kits for Existing Equipment		
Transfer Switch Controller	K1106217	- 5170 Communication Module - Mounting hardware - Cable for one controller or meter
Transfer Switch Controller with Meter	K1106217-001	- 5170 Communication Module - Mounting hardware - Cables for controller and meter