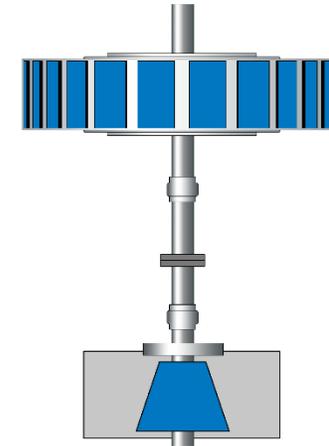
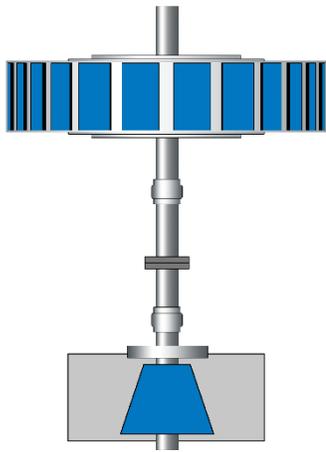
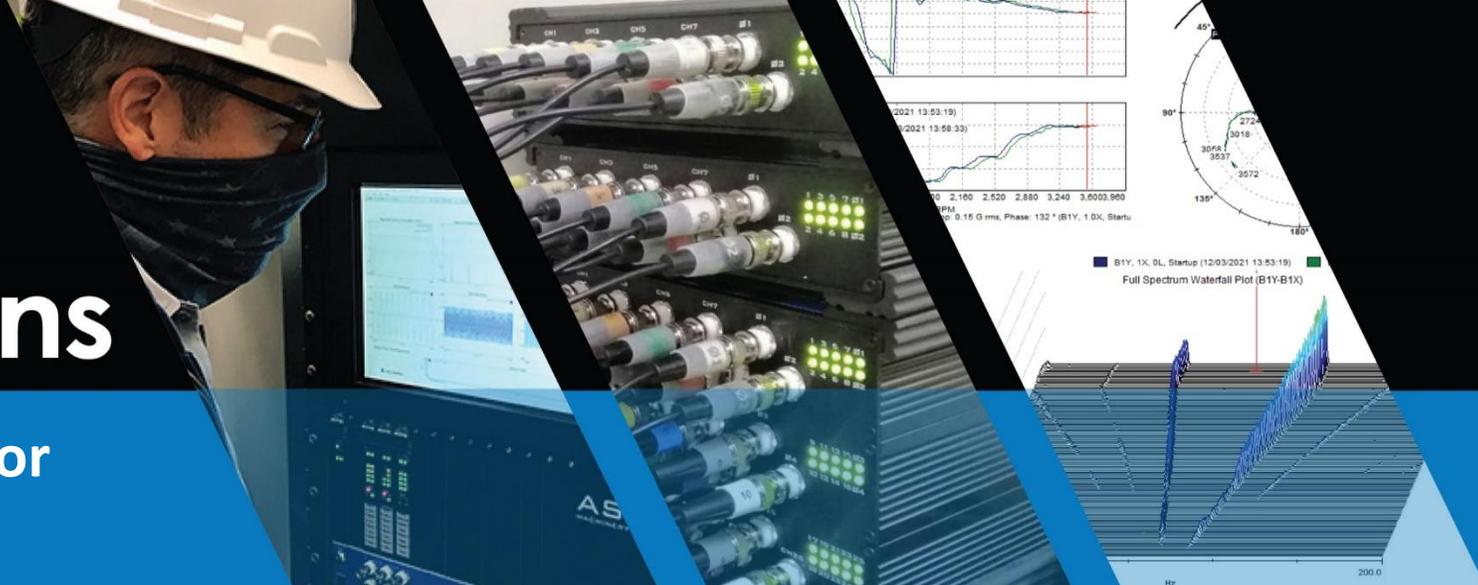


Alta Solutions

Compact Machinery Protection For Hydro Turbines



Alta Solutions Background

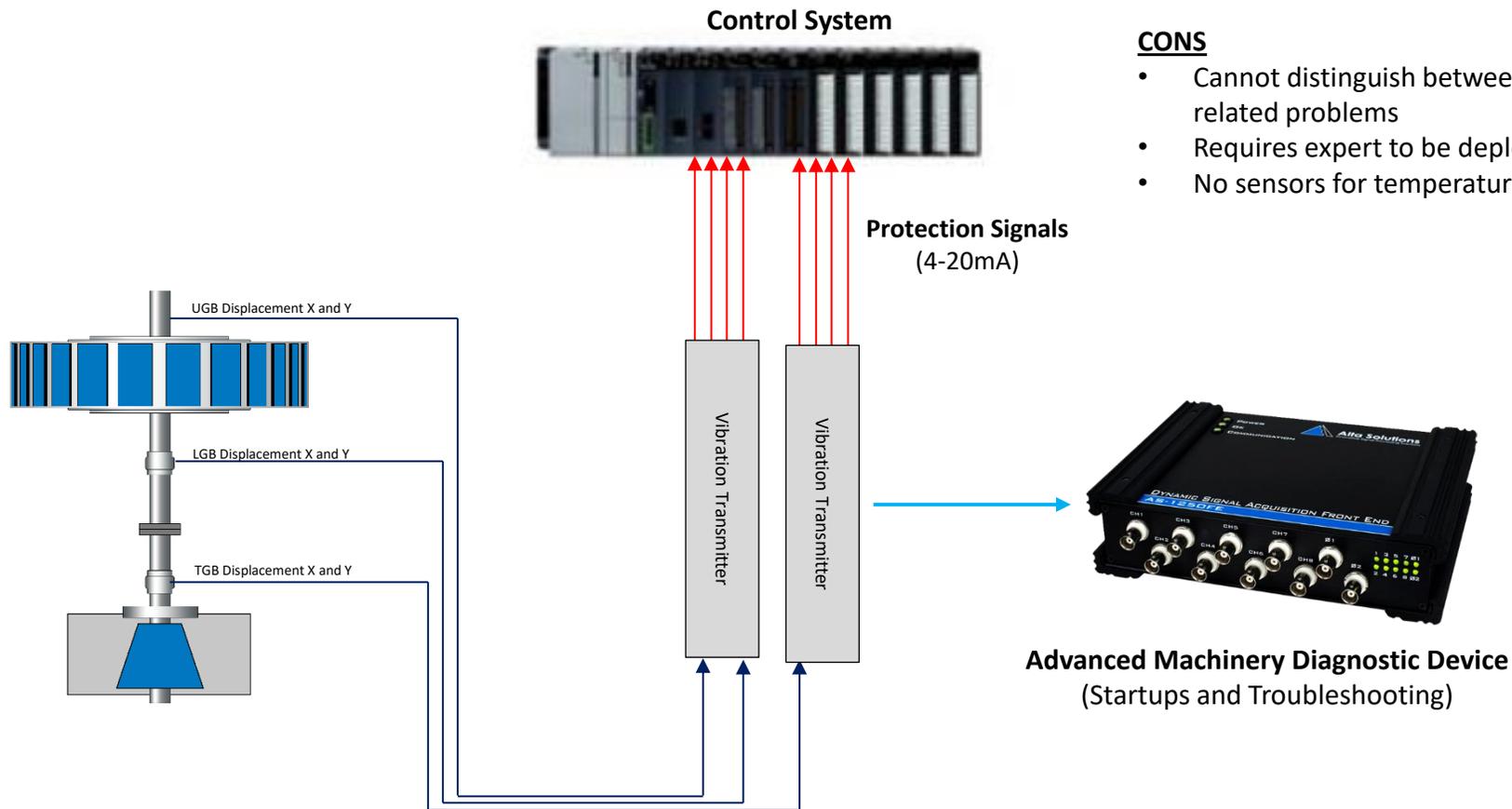
- Alta Solutions was incorporated in 1996
- Extensive experience in vibration protection, monitoring, and analysis
- Monitoring over 1,500 critical and essential machines worldwide
- Data acquisition supplier for turbomachinery OEMs and service groups
- Semi-custom modular hardware and software approach



Some of Our
Customers

Alta Solutions products are used by some of the worlds largest companies

Traditional Protection and Analysis



PROS

- Lowest cost solution

CONS

- Cannot distinguish between process induced and true machinery related problems
- Requires expert to be deploy to site to diagnose problem
- No sensors for temperature or cavitation

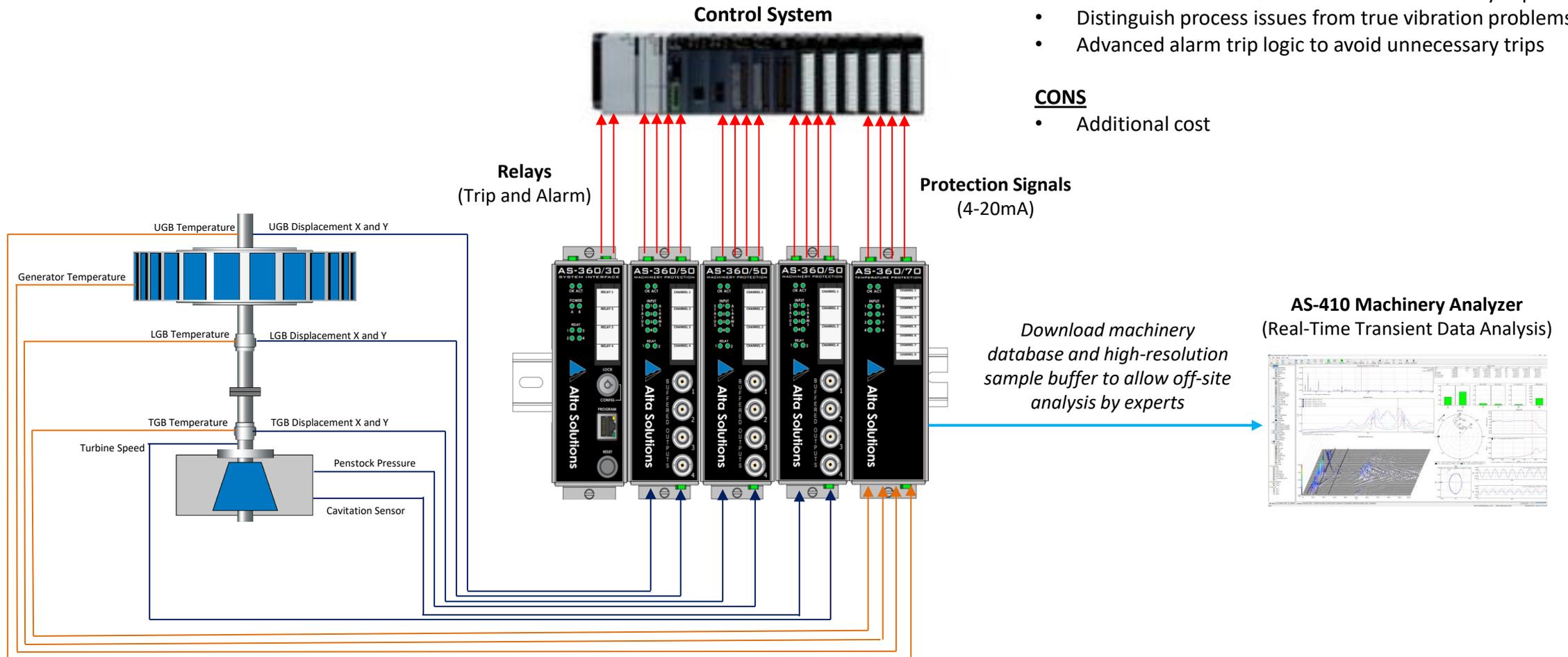
Monitoring and Protection With Off-Line Advanced Analysis

PROS

- Quicker problem resolution
- Reduced travel and on-site costs for machinery expert
- Distinguish process issues from true vibration problems
- Advanced alarm trip logic to avoid unnecessary trips

CONS

- Additional cost



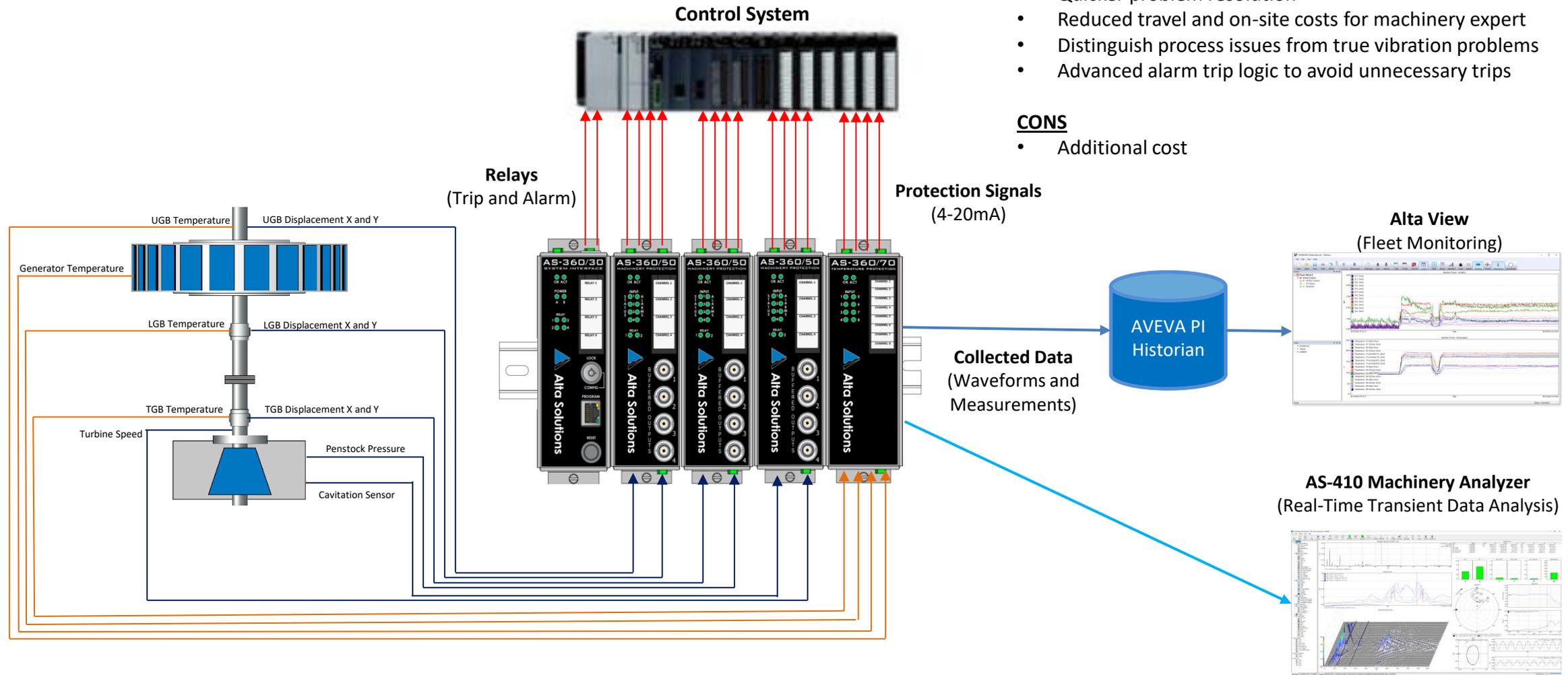
Advanced Monitoring and Protection with Plant Integration

PROS

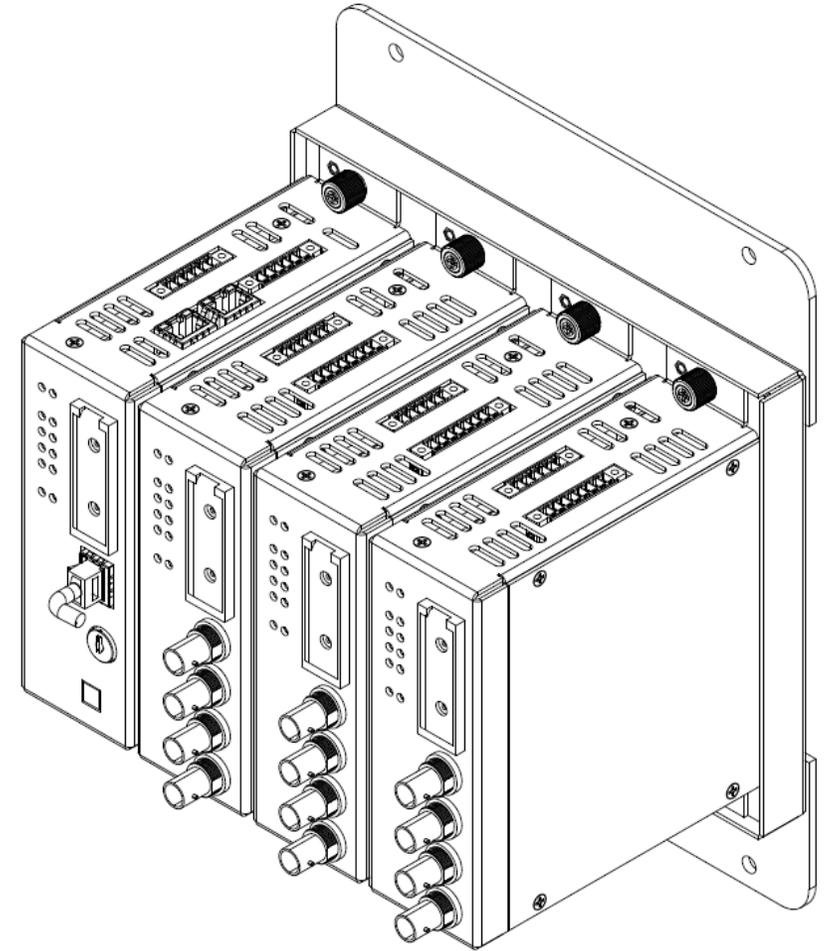
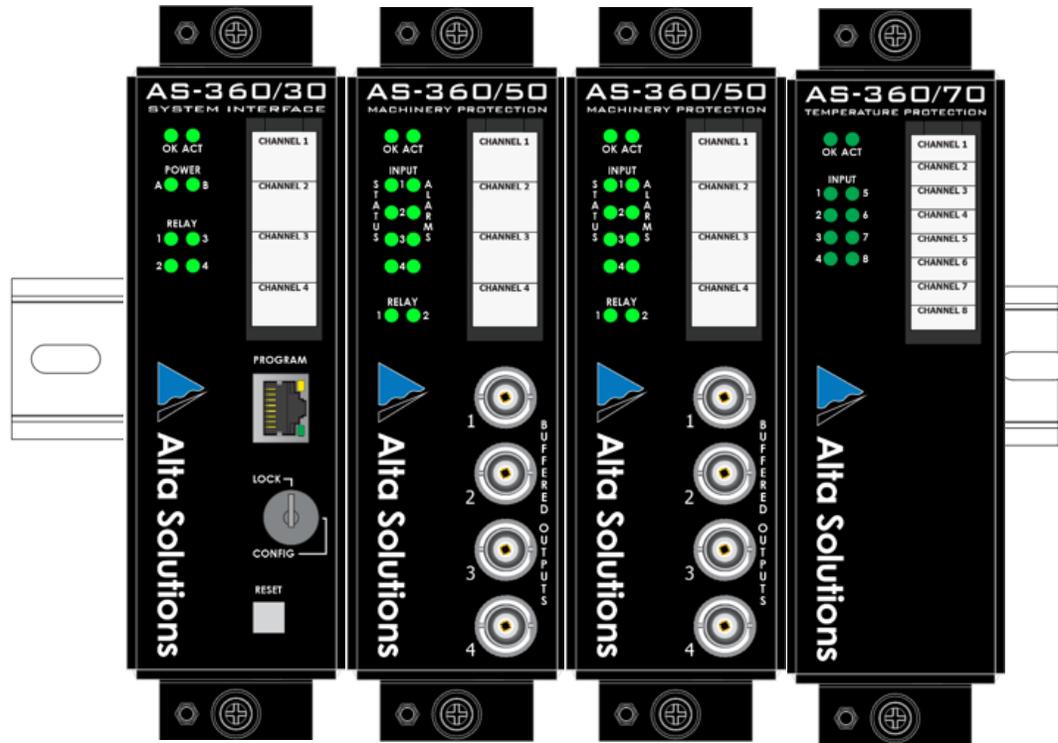
- Allows plant personnel to troubleshoot basic problems
- Quicker problem resolution
- Reduced travel and on-site costs for machinery expert
- Distinguish process issues from true vibration problems
- Advanced alarm trip logic to avoid unnecessary trips

CONS

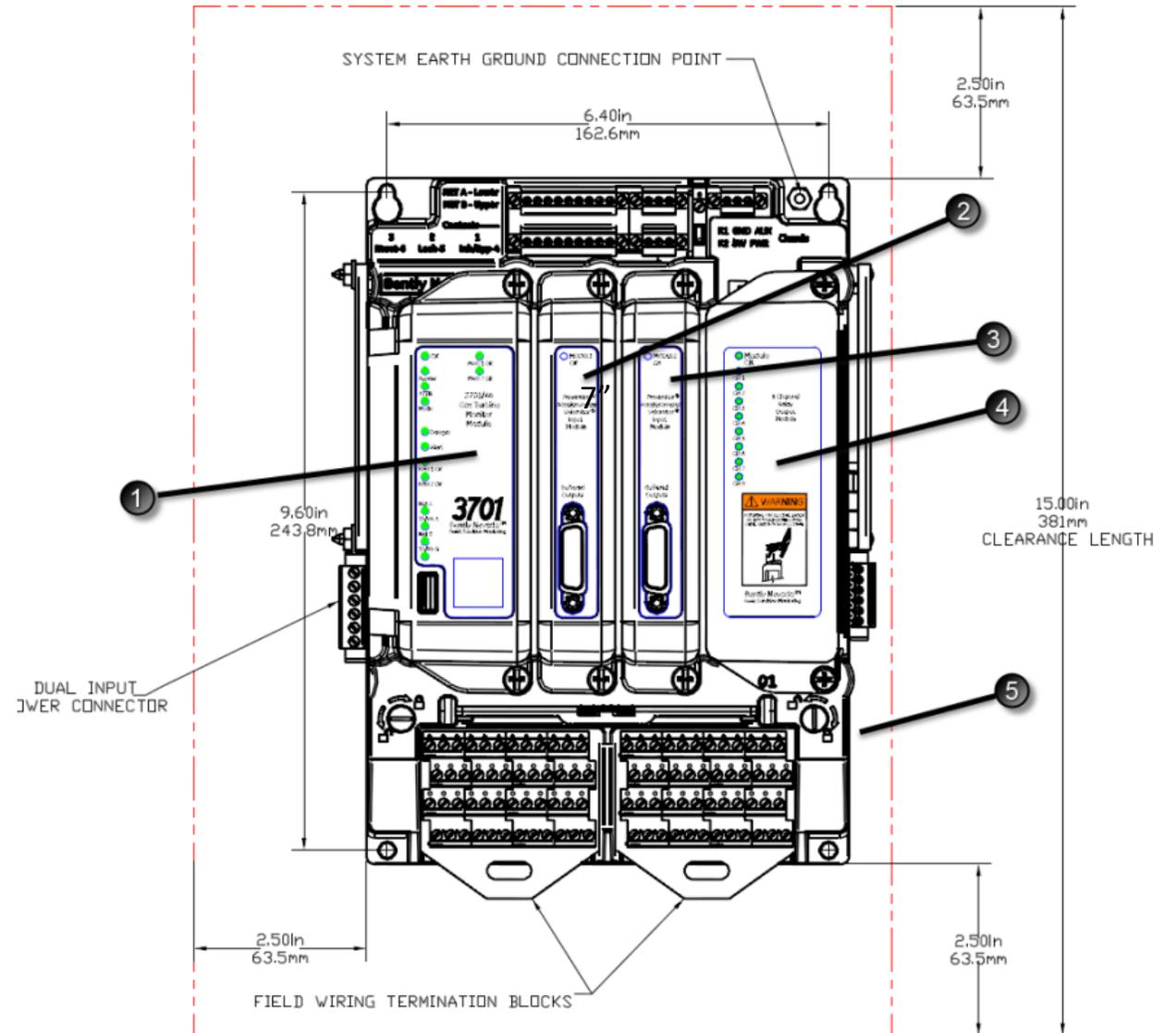
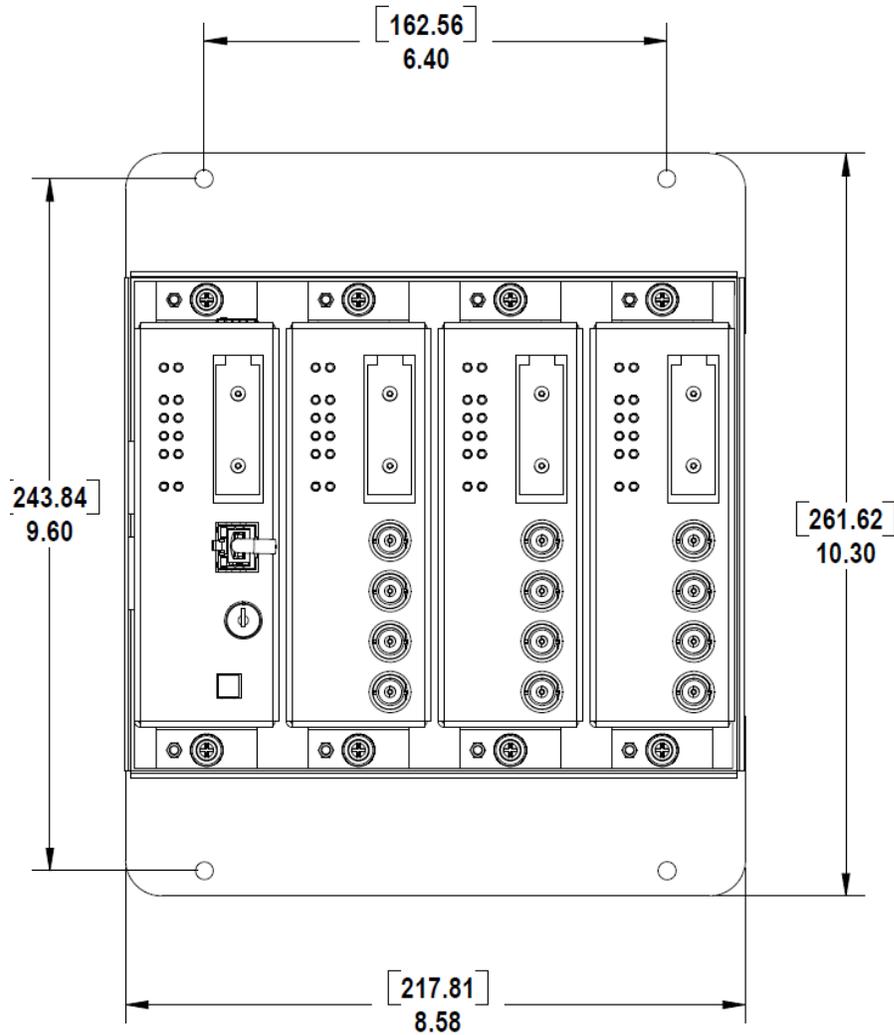
- Additional cost



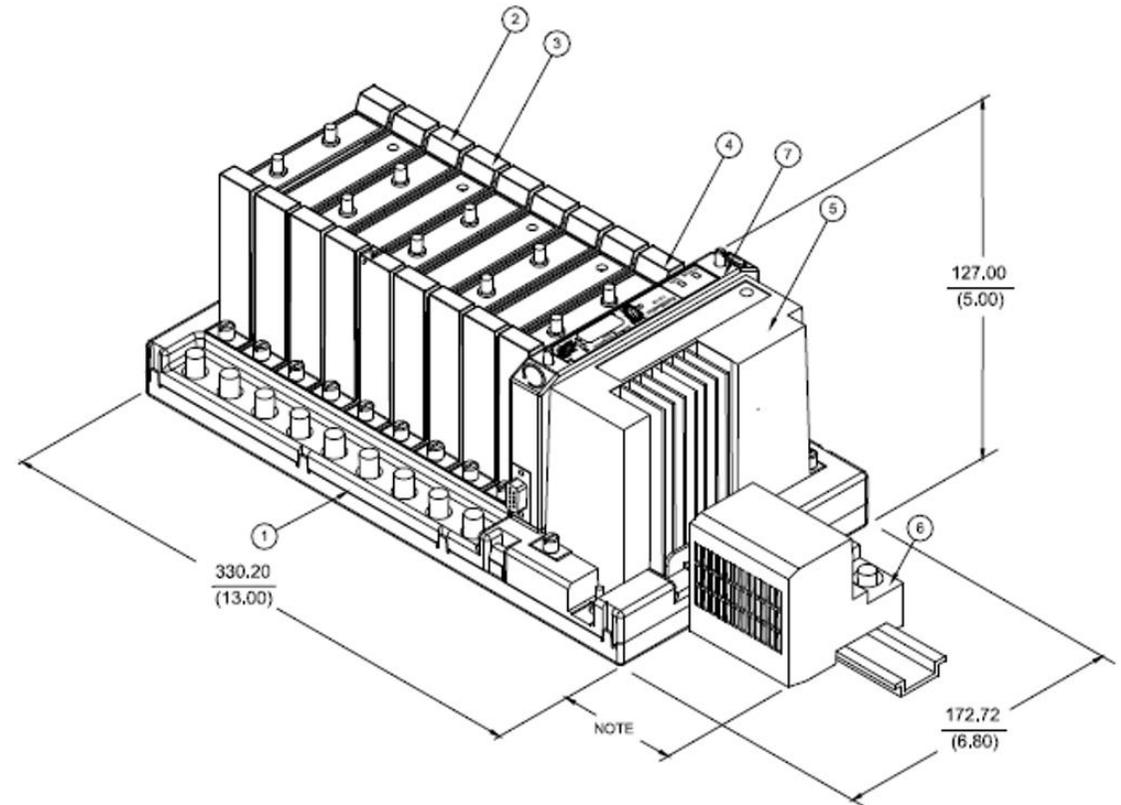
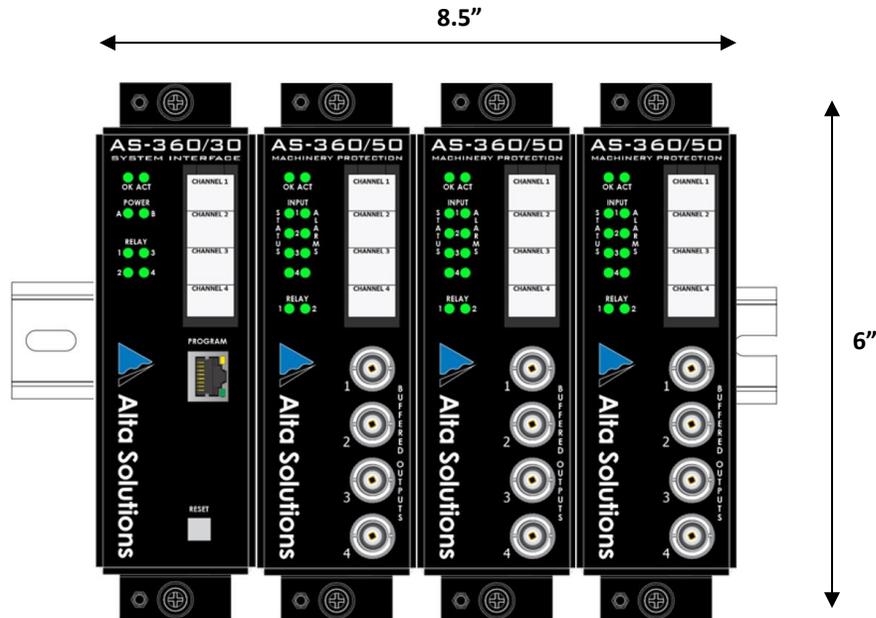
AS-360 Compact Machinery Protection



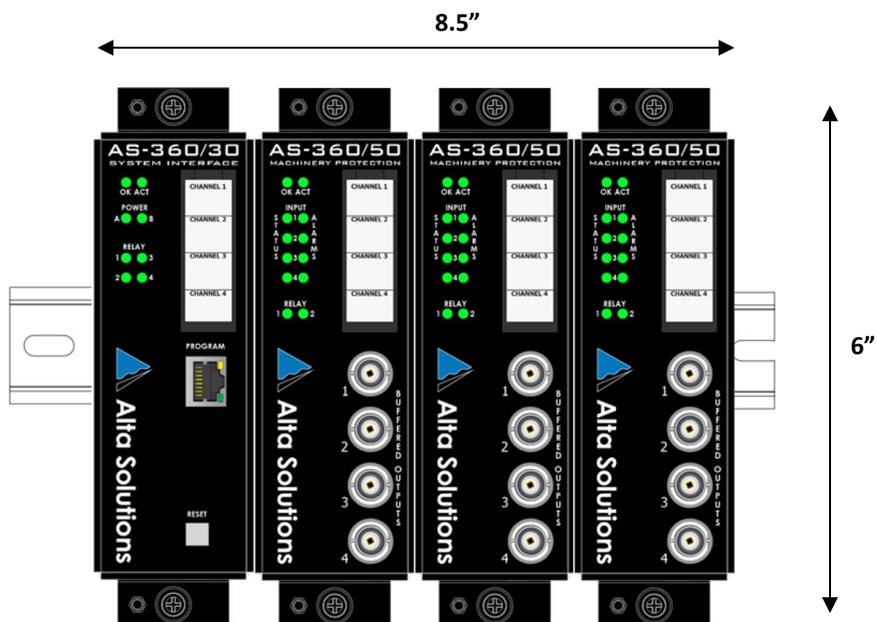
Sized to be Drop-In Replacement for BN3701



Sized to be Drop-In Replacement for BN1701



Sized to be Drop-In Replacement for AB1441



Dimensions	
Definition	H: Height above DIN rail
	W: Width along DIN rail
	D: Depth across DIN rail
Without terminal base (H x W x D)	106 x 102 x 154 mm (4.17 x 4.02 x 6.06 in.)
With terminal base (H x W x D)	125 x 102 x 158 mm (4.92 x 4.02 x 6.22 in.)

AS-360 Modules

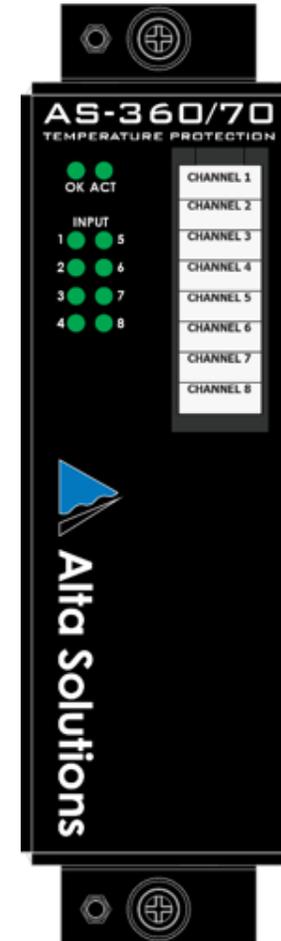
AS-360/30
SYSTEM INTERFACE



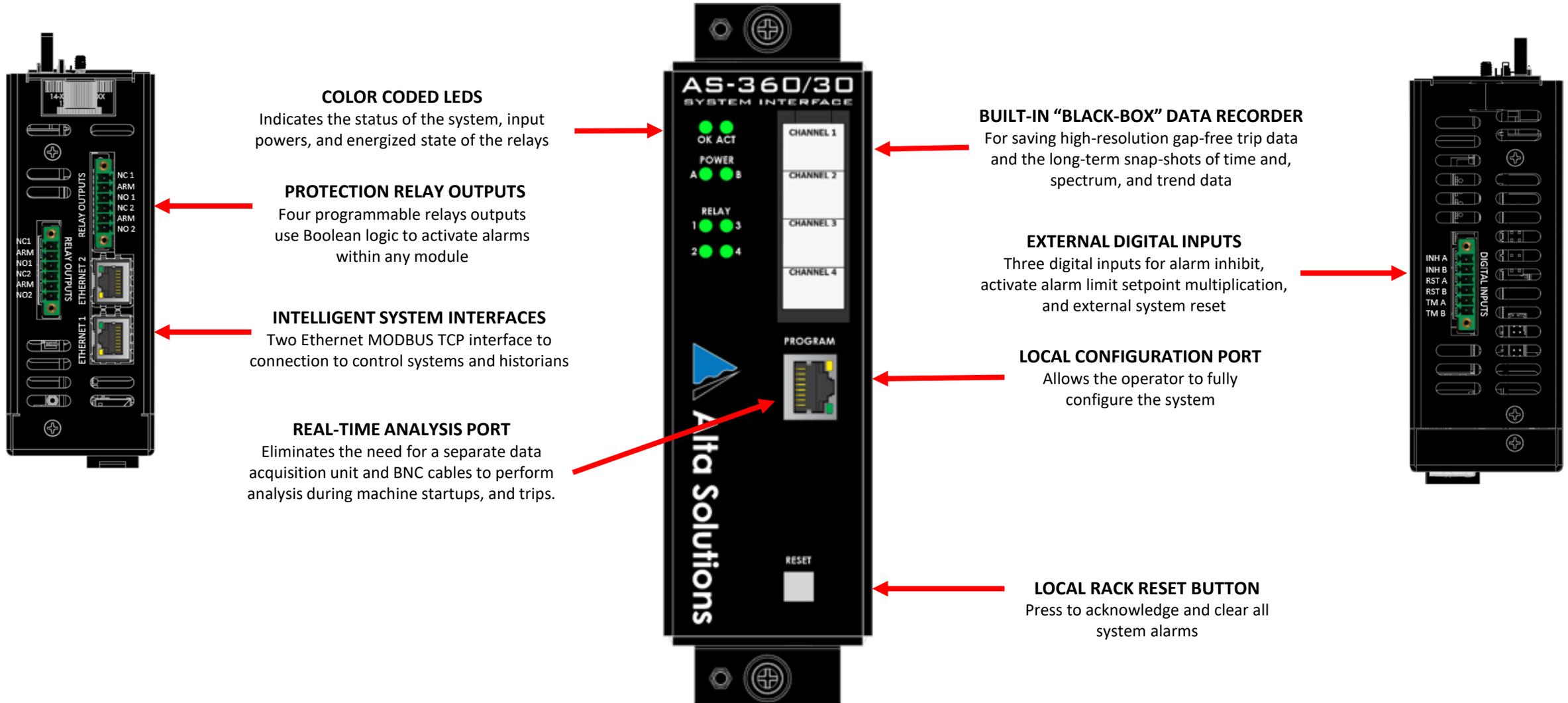
AS-360/50
API670 MACHINERY PROTECTION



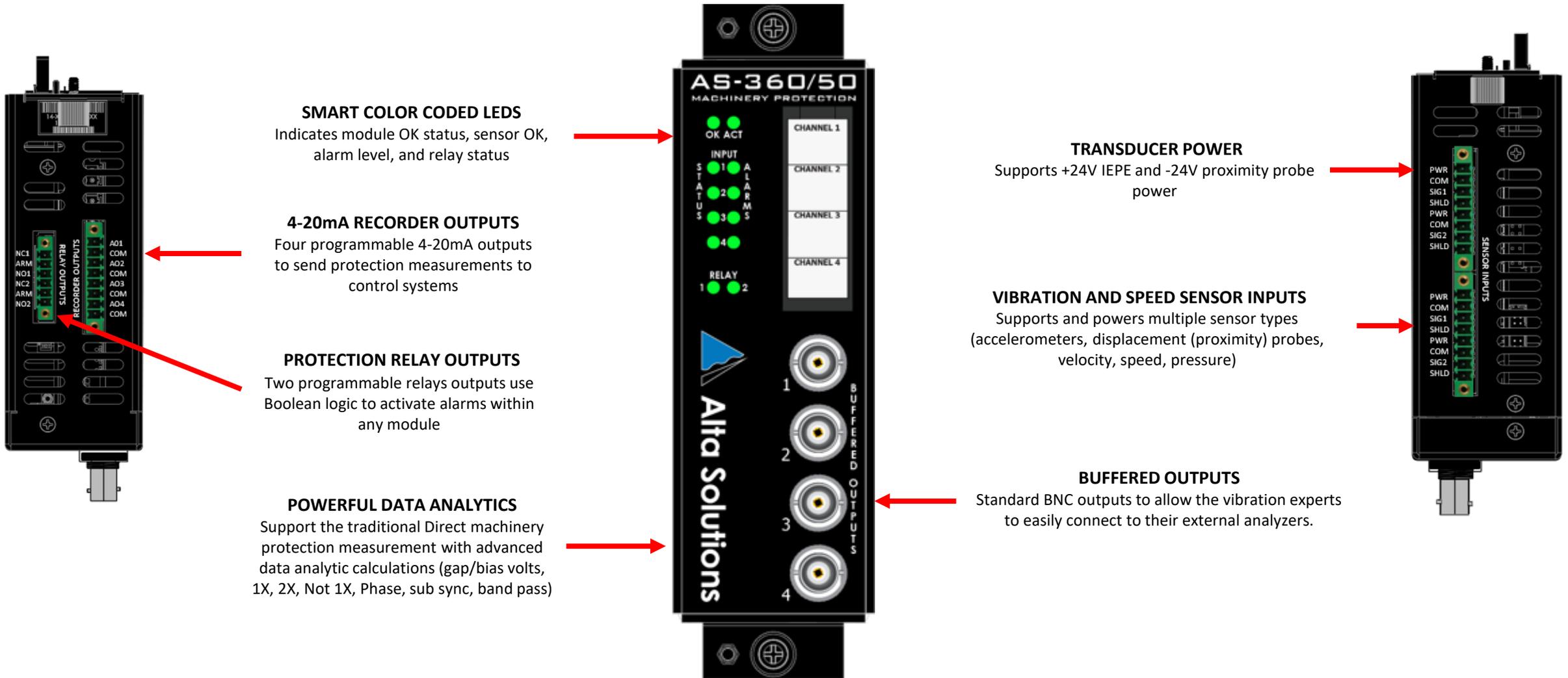
AS-360 /70
TEMPERATURE MONITOR



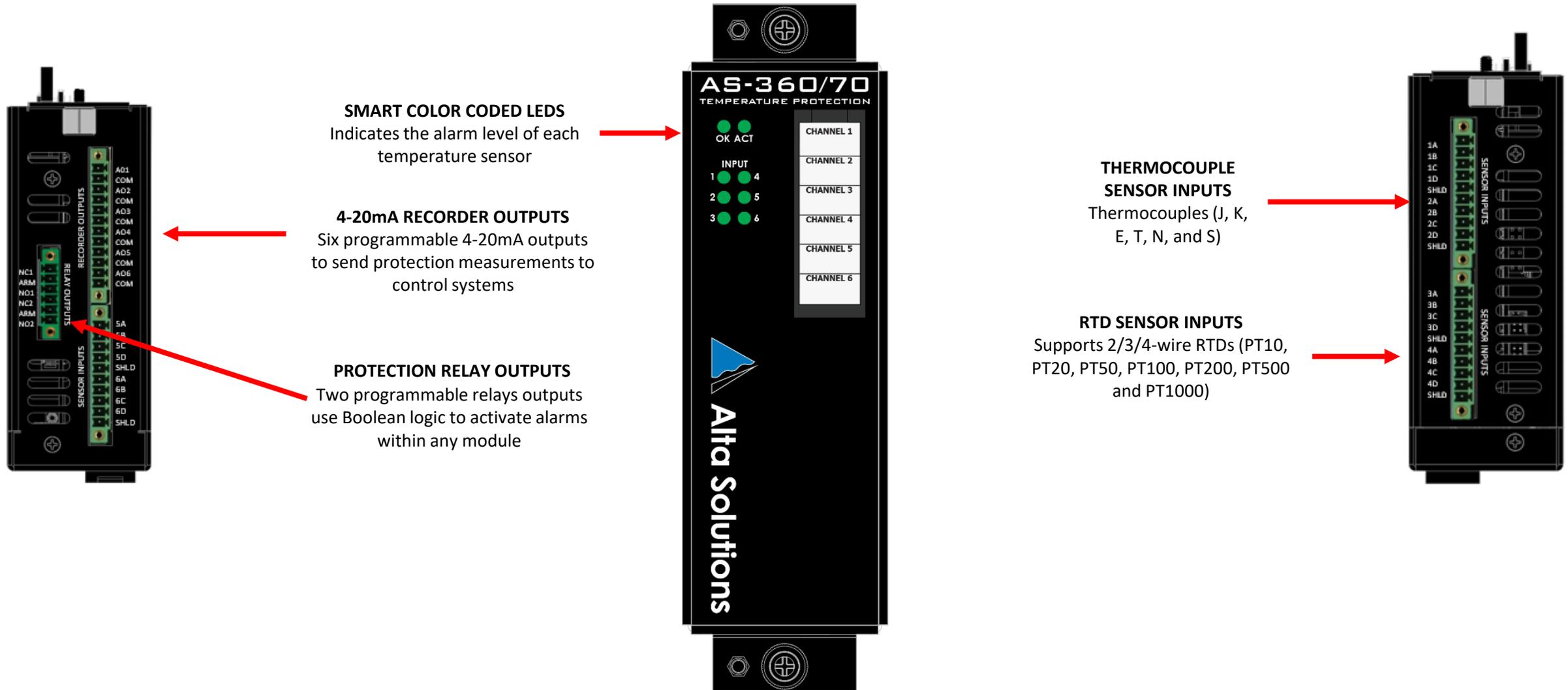
AS-360/30 System Interface Module



AS-360/50 Machinery Protection Module



AS-360/70 Advanced Temperature Protection Module



Contact Information



Contacts:

Machinosis Company Limited
85/13-14, Moo 3, Phla
Banchang, Rayong 21130 Thailand

T +66 (0) 81 8300916
E contact@machinosis.com
W machinosis.com