

CAG + CONTROL CABINET FOR MULTIPLE BACKUP POWER GENERATORS



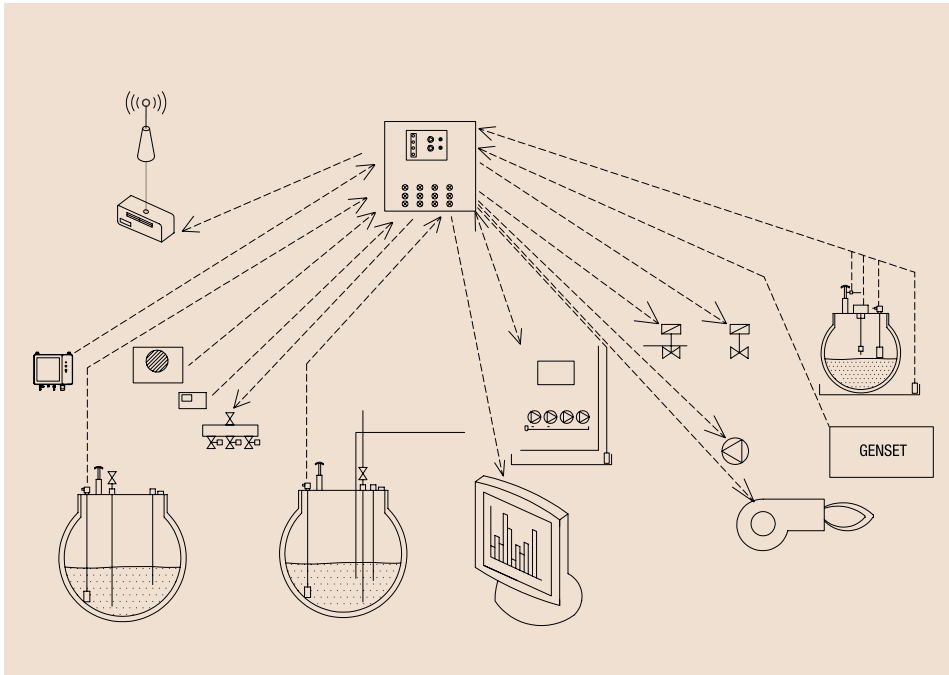
Dimensions (HxWxD in mm)	-
MODEL A	800x600x250
MODEL B	1000x800x250
MODEL C	600x500x200
PROTECTION RATING	IP 65
ENCLOSURE	Metal, Epoxy painted RAL7035
OPERATING TEMP.	0 to 40°C (32 to 104°F)
MOTOR PROTECTION	Motor Starter or VFD Drive Overload Protection
OUTPUT RELAYS	According to project requirements
INPUT RELAYS	According to project requirements
COMMUNICATION	Modbus
	Ethernet / TCP IP
	Others: LON /
POWER SUPPLY	230 V (I) 50 - 60 Hz
	400 V (III) 50 - 60 Hz
FOR OTHER VOLTAGES PLEASE CONSULT	-
APPROVAL	CE
STANDARDS	EN61131-2:2007
EMC DIRECTIVE (2004/108/EC)	-
LOW VOLTAGE DIRECTIVE (2006/95/EC)	-

Main technical characteristics:

The CAG+ control system can manage 1, 2 or more filling areas depending on the configuration selected by the designer, according to building's technical installations distribution and distances.

It consists of a touch screen 5.7" TFT color LCD interface with Mod Bus communication capability with BMS / SCADA or with TCP-IP communication protocol.

CAG + CONTROL CABINET FOR MULTIPLE BACKUP POWER GENERATORS



Description

The INPRO CAG+ Control Cabinet for Multiple Backup Power Generators is the perfect complement to INPRO transfer systems for diesel fuel ATAM-GET.

Its main component is a PLC controller with multiple analogue / digital inputs and outputs which can be defined for each installation, allowing the ideal safety and reliability operation at each specific installation such as:

- Storage Tank Level Control.
- Generator Tank Level Control.
- Duplex Pumps Control.
- Fuel Filtration / Polishing control.
- Motor Starter and Overload Protection for motors.
- Flow meter.
- Leak detection.
- Pressure drop sensors at filter.
- Integration with other controllers and BMS Systems Ethernet or Mod bus.

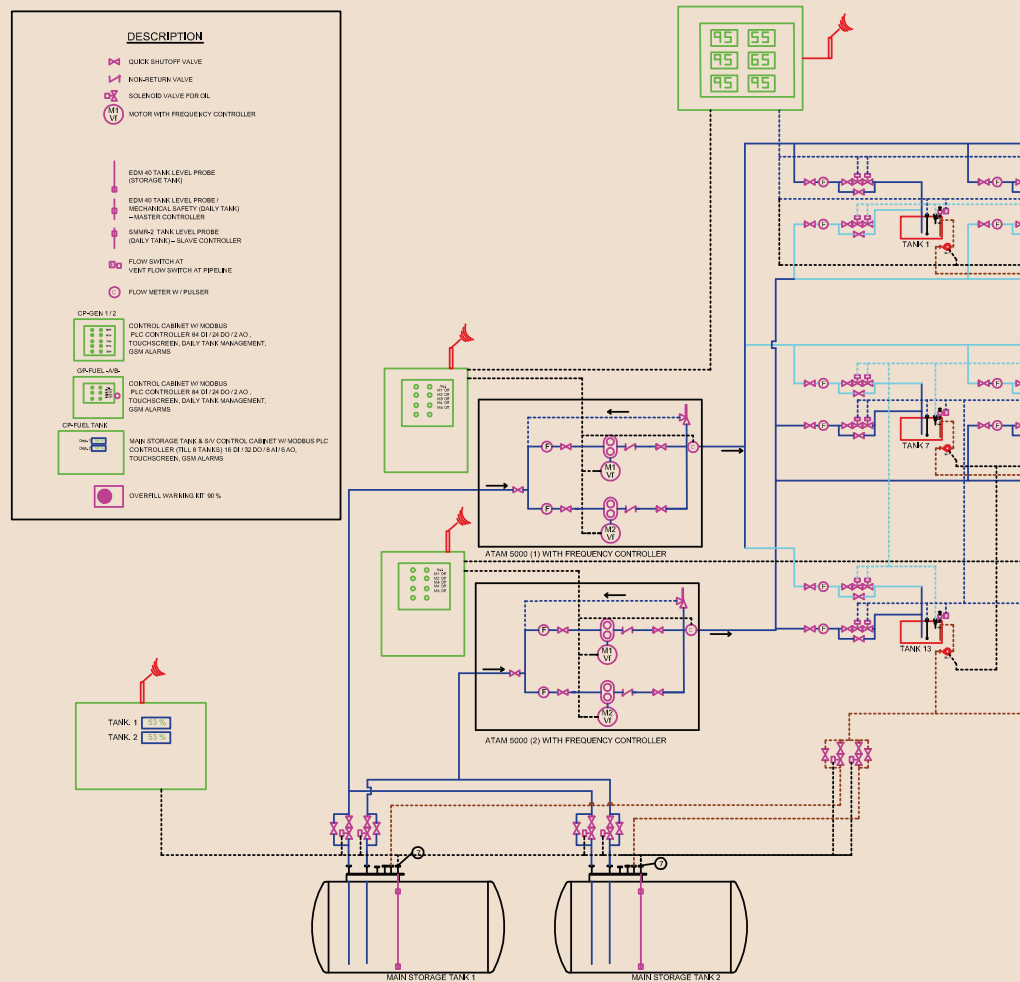
Other design optional features:

- Redundant relay principle to void automatic controller action at different redundant safety critical points at the installation.
- Dual Power Source Feed single-phase or 230/480 VAC – 3 Phase.
- Dual Control Power Transformer.
- Pump Motor Starters with Manual Disconnect and Overload Protection.
- Power Monitoring and Reporting for Control Circuit Breakers and Motor starters.

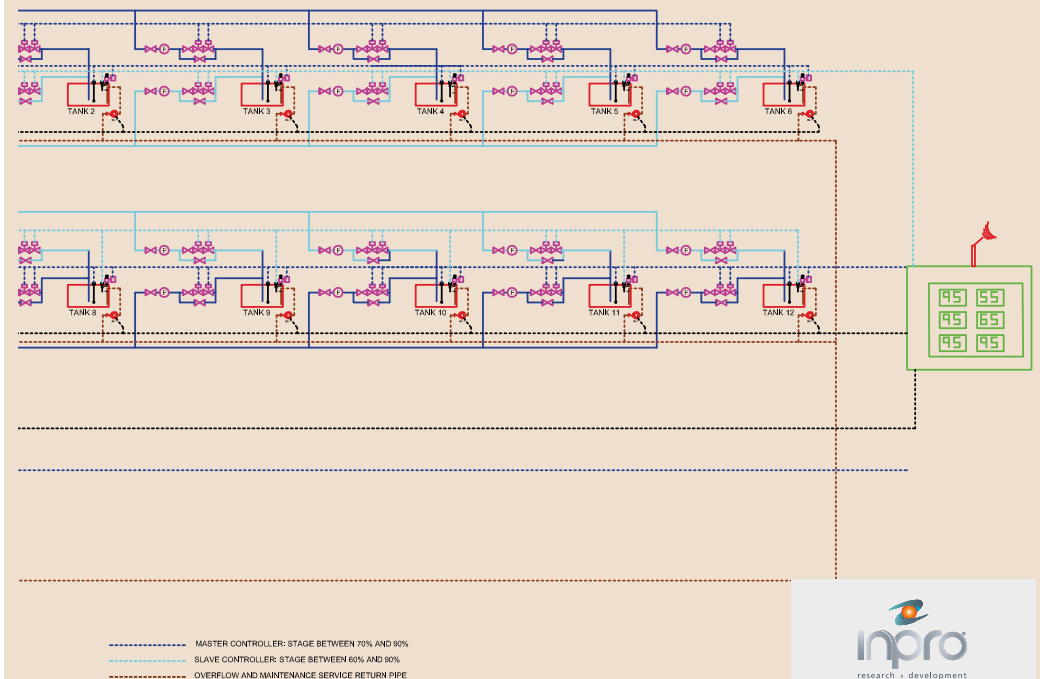


This is a product suitable for projects.
See all Inpro project references here

INPRO ATAM AUTOMATIC DIESEL SUPPLY TO 6 DUPLICATED BACKUP



POWER GENERATORS - DUTY AND STANDBY- IN TIER IV REDUNDANCY



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CAG FUEL MONITORING PANEL FROM 1 (OR N) MAIN TANK(S) TO 1 (OR N) DAY TANK(S)

Voltage free contacts connectivity

CODE	Model (Nr of Storage Tanks / Day Tanks / Pumps)	Size (mm)	Weight (approx)	Free voltage contact to BMS	Analog out. to BMS
23070000010524	Fuel Monitoring Panel 1 ST / 0 DT	500x400x200	14	6	1
23070000010336	Fuel Monitoring Panel 1 ST / 1 DT	500x400x200	15	11	1
23070000010362	Fuel Monitoring Panel 1 ST / 2 DT	600x600x200	16	16	1
23070000010540	Fuel Monitoring Panel 1 ST / 3 DT	600x800x300	18	21	1
23070000010434	Fuel Monitoring Panel 1 ST / 4 DT	600x800x300	20	23	1
23070000010570	Fuel Monitoring Panel 1 ST / 5 DT	600x800x300	20	24	1
23070000010548	Fuel Monitoring Panel 1 ST / 6 DT	1000x1000x300	50	44	1
23070000010571	Fuel Monitoring Panel 1 ST / 8 DT	1000x1000x300	52	52	1
23070000010335	Fuel Monitoring Panel 2 ST / 1 DT	600x600x200	18	18	2
23070000010361	Fuel Monitoring Panel 2 ST / 2 DT	600x600x200	20	21	2
23070000010372	Fuel Monitoring Panel 2 ST / 3 DT	600x800x300	24	27	2
23070000010365	Fuel Monitoring Panel 2 ST / 4 DT	600x800x300	25	32	2
23070000010495	Fuel Monitoring Panel 2 ST / 6 DT	1000x1000x300	55	44	2
23070000010396	Fuel Monitoring Panel 2 ST / 6 DT	1000x1000x300	60	44	2
23070000010376	Fuel Monitoring Panel 2 ST / 7 DT	1000x1000x300	62	48	2
23070000010334	Fuel Monitoring Panel 3 ST / 1 DT	600x600x300	22	20	3
23070000010411	Fuel Monitoring Panel 3 ST / 2 DT	600x600x300	24	24	3
23070000010582	Fuel Monitoring Panel 3 ST / 3 DT	800x800x250	30	40	3
23070000010380	Fuel Monitoring Panel 3 ST / 4 DT	800x800x250	36	48	3
23070000010581	Fuel Monitoring Panel 3 ST / 5 DT	1000x1000x300	65	60	3
23070000010570	Fuel Monitoring Panel 4 ST / 3 DT	1000x1000x300	60	44	4
23070000010398	Fuel Monitoring Panel 4 ST / 6 DT	1000x1000x300	65	42	4
23070000010523	Fuel Monitoring Panel 8 ST / 0 DT	1000x1000x300			8
23070000010020	Control Module up to 2 Pumps				
23070000010060	Control Module up to 6 Pumps				

Type designation Key:

"3 ST / 4 DT" = 3 Main Storage Tanks, 4 Day Tanks

Description

The INPRO CAG Control Cabinet for Multiple Backup Power Generators is the perfect complement to INPRO transfer systems for diesel fuel ATAM-GET.

Its multiple analogue / digital inputs and outputs which can be defined for each installation, allowing the ideal safety and reliability operation at each specific installation such as:

- Storage Tank Level Control (EDM 4-digits display)
- Generator Tank Level control (SR level) switch lamps and contacts)
- Duplex Pump/ s Control (optional)
- Fuel filtration / Polishing control (optional)
- Motor Starter and Overload Protection for motors (optional)
- Flow meter (optional)
- Leak detection (optional)
- Pressure drop sensors at filter (optional)
- Integration with other controllers and BMS Systems through dry relay outputs and analog contacts to the BMS

Other design optional features:

- Pump Motor Starters with Manual Disconnect and Overload Protection
- Power Monitoring and Reporting for Control Circuit Breakers and Motor starters



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CAG + FUEL MONITORING PANEL FROM 1 (OR N) MAIN TANK(S) TO 1 (OR N) DAY TANK(S) PLC and touchscreen, with Modbus connectivity

CODE	Model (Nr of Storage Tanks / Day Tanks / Pumps)	Size (mm)	Weight (approx)	Free voltage contacts	Digital I/O. to BMS	Analog I/O. to BMS
23070000010429	Fuel Monitoring Panel w. PLC 3,5" 1 ST / 1 DT	600x600x300	25	9	10I/6O	2I/2O
23070000010413	Fuel Monitoring Panel w. PLC 3,5" 1 ST / 1 DT	600x600x300	25	16	10I/14O	2I/2O
23070000010384	Fuel Monitoring Panel w. PLC 3,5" 0 ST / 3 DT	600x600x300	25	20	16I/10O	2I/2O
23070000010341	Fuel Monitoring Panel w. PLC 5,7" 1 ST / 1 DT / 2 P	600x600x300	28	10	26I/14O	2I/2O
23070000010340	Fuel Monitoring Panel w. PLC 5,7" 1 ST / 1 DT / 2 P / 1 R.P	600x600x300	28	14	26I/12O	2I/2O
23070000010351	Fuel Monitoring Panel w. PLC 5,7" 1 ST / 2 DT / 2 P	600x600x300	28	16	26I/12O	2I/2O
23070000010387	Fuel Monitoring Panel w. PLC 5,7" 1 ST / 2 DT / 2 P / 1 R.P	800x800x300	28	24	26I/12O	2I/2O
23070000010384	Fuel Monitoring Panel w. PLC 3,5" 1 ST / 3 DT	600x600x300	30	20	18I/8O	2I/2O
23070000010383	Fuel Monitoring Panel w. PLC 3,5" 1 ST / 5 DT	600x600x300	30	24	34I/16O	2I/2O
23070000010415	Fuel Monitoring Panel w. PLC 5,7" 6 ST / 0 DT	400x600x300	40	4	18I/8O	6I/4O
23070000010388	Fuel Monitoring Panel w. PLC 5,7" 2 ST / 1 DT / 2 P	600x600x300	45	20	24I/14O	2I/2O
23070000010353	Fuel Monitoring Panel w. PLC 5,7" 2 ST / 2 DT	600x800x300	45	16	28I/14O	2I/2O
23070000010522	Fuel Monitoring Panel w. PLC 5,7" 2 ST / 2 DT	600x800x300	45	24	28I/14O	2I/2O
23070000010407	Fuel Monitoring Panel w. PLC 5,7" 3 ST / 12 DT	600x800x300	50	28	38I/18O	2I/2O
23070000010517	Fuel Monitoring Panel w. PLC 5,7" 3 ST / 2 DT	600x800x300	50	16	28I/14O	2I/2O
23070000010518	Fuel Monitoring Panel w. PLC 5,7" 3 ST / 4 DT	800x600x300	50	32	28I/14O	2I/2O
23070000010415	Fuel Monitoring Panel w. PLC 5,7" 6 ST / 0 DT	400x600x300	40	4	18I/8O	6I/4O
23070000010516	Fuel Monitoring Panel w. PLC 5,7" 8 ST / 8 DT	800x800x250	50	56	28I/14O	2I/2O
03200900000020	Control Module up to 2 Pumps					
03200900000060	Control Module up to 6 Pumps					

Type designation Key:

"1 ST / 1 DT / 2 P / 1 R.P" = 1 Main Storage Tank, 1 Day Tank, 2 Pumps, 1 Return Pump

Description

The INPRO CAG + Control Cabinet for Multiple Backup Power Generators is the perfect complement to INPRO transfer systems for diesel fuel ATAM-GET.

Its main component is a PLC controller with 3,5" or 5,7" color LCD touchscreen HMI, with multiple analogue / digital inputs and outputs which can be defined for each installation, allowing the ideal safety and reliability operation at each specific installation such as:

- Storage Tank Level Control
- Generator Tank Level Control
- Duplex Pumps Control
- Fuel Filtration / Polishing control
- Motor Starter and Overload Protection for motors.
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