PRODUCT GUIDE

Electronic edition – Applications

ComAp
CREATIVE ENGINEERING

The interactive simulator provides a taste of the new InteliVision, with demo and preview options illustrating screen information and function.

simulator ONLINE

InteliVision

InteliVision is a new generation colour display unit for either InteliGen^{NT} / InteliSys^{NT} or InteliDrive controllers. It is designed as a simple, easy to use Plug and Play solution, which also features our unique TRENDS monitoring as a standard feature.

It is the first colour display in the Power Generation field. More info on page 54.

www.comap.cz/intelivision

SWITCHED ONTO INNOV

InteliDrive® MOBILE

The InteliDrive Mobile is a highly flexible sophisticated mobile electronic controller, which features outstanding control, monitoring and protection for diesel and gas engines as well as driven technology.

The new controller offers range of specific functions suitable for mobile applications as hydraulic system control, communication with sensors and operational devices control.

Most commonly, these tailored applications meet the specific control requirements of mobile hydraulics, engine driven compressors and pumps.

InteliCompact NT

InteliCompact[NT] models are new integrated controllers for gen-sets operating in both standby and parallel modes. Functionality, optimized for ease of use, installation and configuration, includes built-in synchronizer and digital isochronous load sharer.

... more on page 14

...ATION

InteliATS ᴺᵀ

The new InteliATSᴺᵀ controllers are designed to monitor the incoming AC mains supply (1 or 3 phases) for under voltage, over voltage, under frequency, over frequency and voltage unbalance.

WELCOME TO OUR PRODUCT GUIDE

Following the positive feedback from our first Product Guide we have updated the second issue with more information on an ever-growing range of control products. In the meantime, our design and development teams have worked very hard to create exciting new control solutions to meet customers' application needs – all of which are detailed in the new guide.

We hope you find it just as useful and practical as before. Inside you will find technical information, product features and functions, alongside customer feedback on how the products have performance in the field. Hearing what you think is very important to us, so if you would like to share you experience of using our products please let us know by emailing your story to info@comap.cz

Overall the offers a comprehensive guide to our entire range of products and accessories. I hope you find it both helpful and invaluable.

Regards
Libor Mertl – Managing Director

CONTENT

What do all those abbreviations mean? It´s easy. Go to page 62!

? IA-NT, IL-NT, IC-NT, MC-NT, IG-NT, IS-NT, IGS-NT, IM-NT, ID, IV ...

Applications

This section demonstrates the flexibility and capability of ComAp power generation control solutions by illustrating a wide range of applications including single gen-sets, multiple sets operating in parallel and complex CHP (cogeneration) applications. Each example shows how ComAp control products integrate seamlessly to deliver a complete and effective control and monitoring package for both typical and complex power applications.
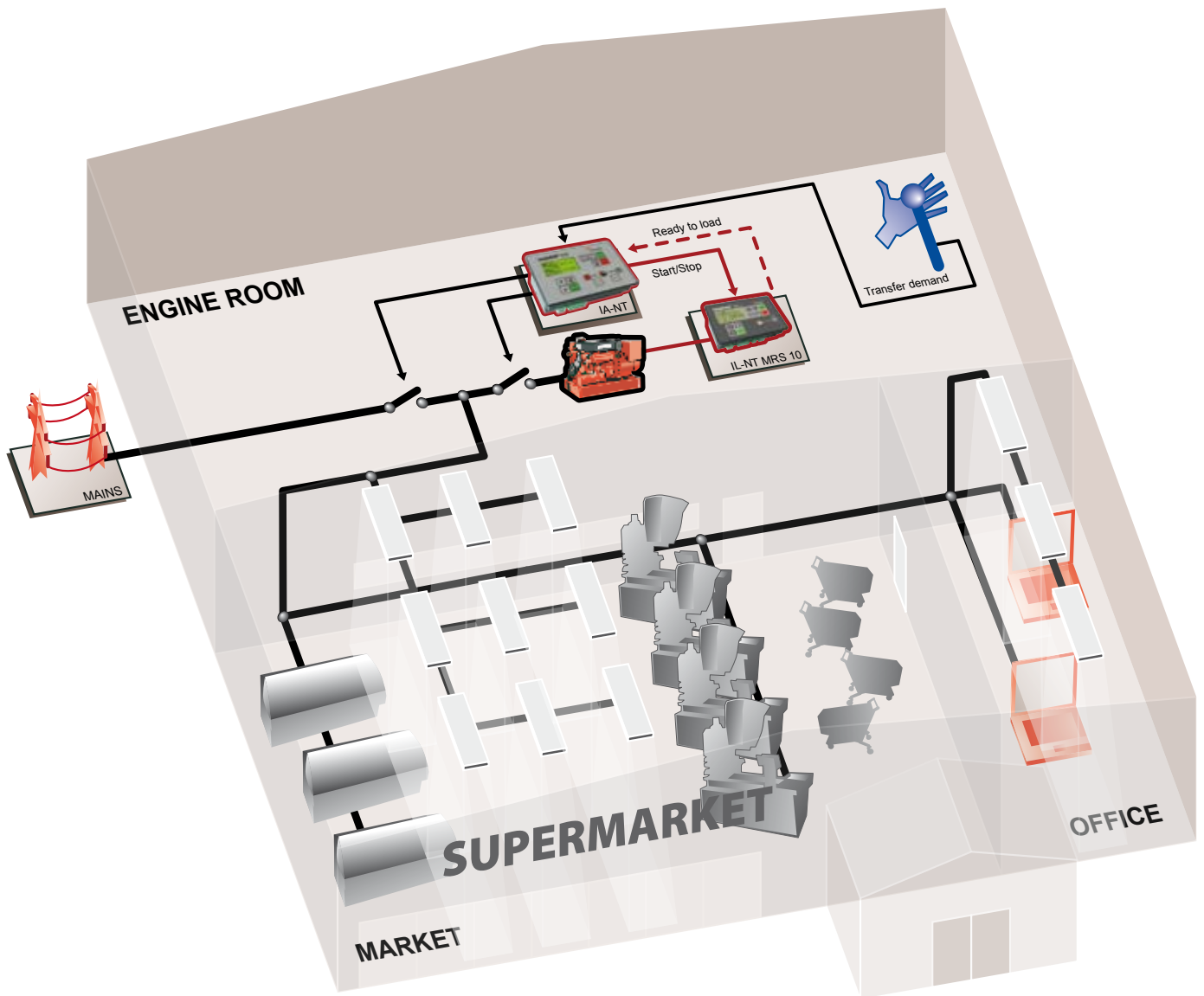
ComAp drive power control products are suitable for a wide range of diesel engine powered plant and equipment. The following applications are just a small selection to demonstrate the versatility of ComAp drive power products and accessories for use in this demanding market.

Open / delayed transition
– manual transfer demand

Description:

- Stand-by gen-set. IA-NT continuously monitors mains supply for under voltage, over voltage, under frequency, over frequency and voltage unbalance. In the case of mains failure it sends a remote start command to the standby gen-set.
- IA-NT waits for "Ready To Load" signal or standby gen-set voltage – configurable - and switches load to the standby generator.
- After the mains returns the IA-NT switches load back to mains and sends remote stop command to the standby gen-set.
- Different delay intervals can be set for individual changeover phases.
- The changeover can take place also on explicit demand, not only after mains failure.
- ATS function works with backup battery or in reduced mode without backup battery.

Scope of supply:

- 1× IA-NT STD
- 1× arbitrary gen-set controller (e.g. IL-NT MRS 10) or key start box
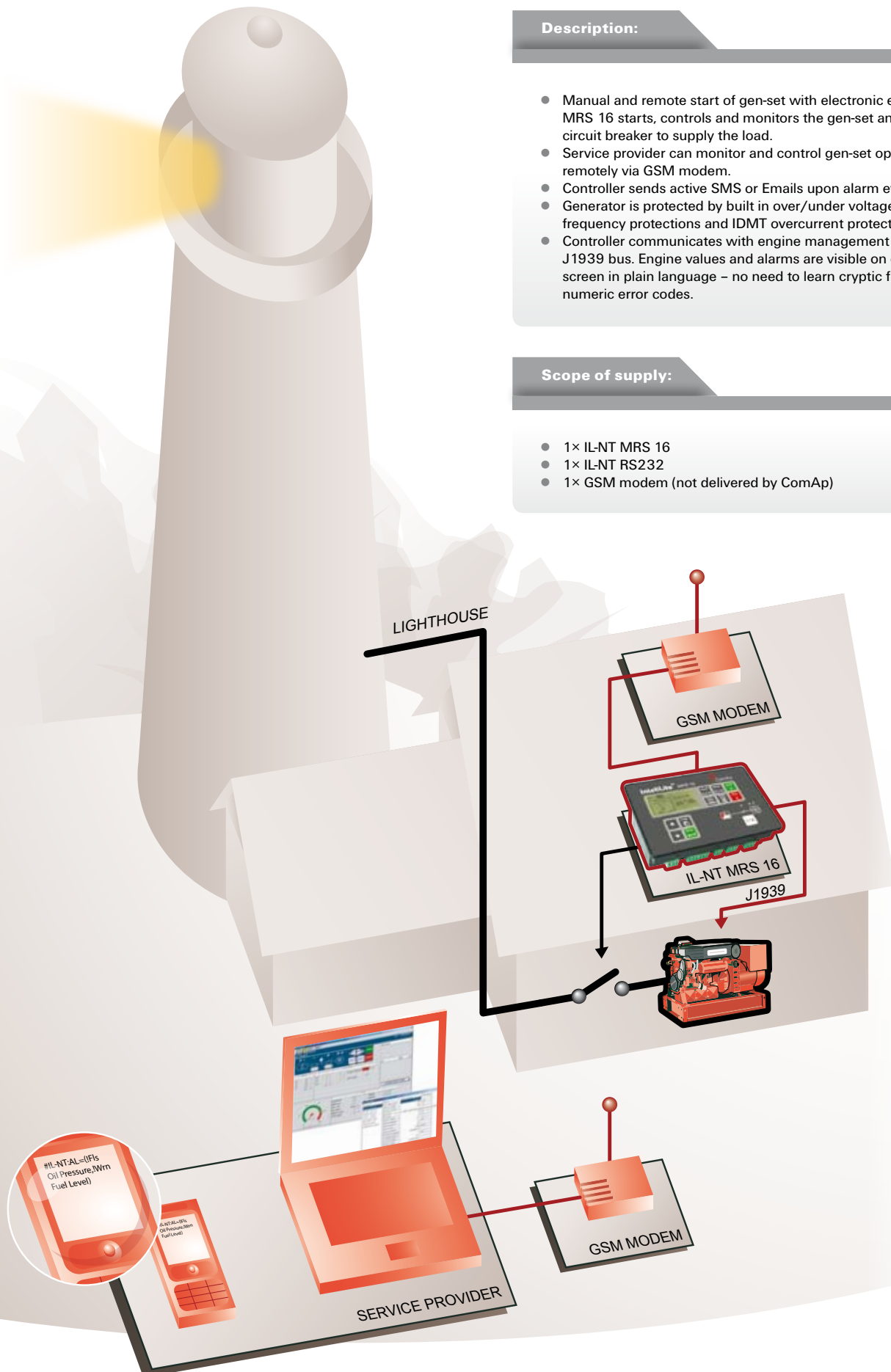
Prime mover system
– remote monitoring via GSM

Description:

- Manual and remote start of gen-set with electronic engine. IL-NT MRS 16 starts, controls and monitors the gen-set and controls the circuit breaker to supply the load.
- Service provider can monitor and control gen-set operation remotely via GSM modem.
- Controller sends active SMS or Emails upon alarm event.
- Generator is protected by built in over/under voltage and frequency protections and IDMT overcurrent protection.
- Controller communicates with engine management unit by CAN J1939 bus. Engine values and alarms are visible on graphical LCD screen in plain language – no need to learn cryptic flashing or numeric error codes.
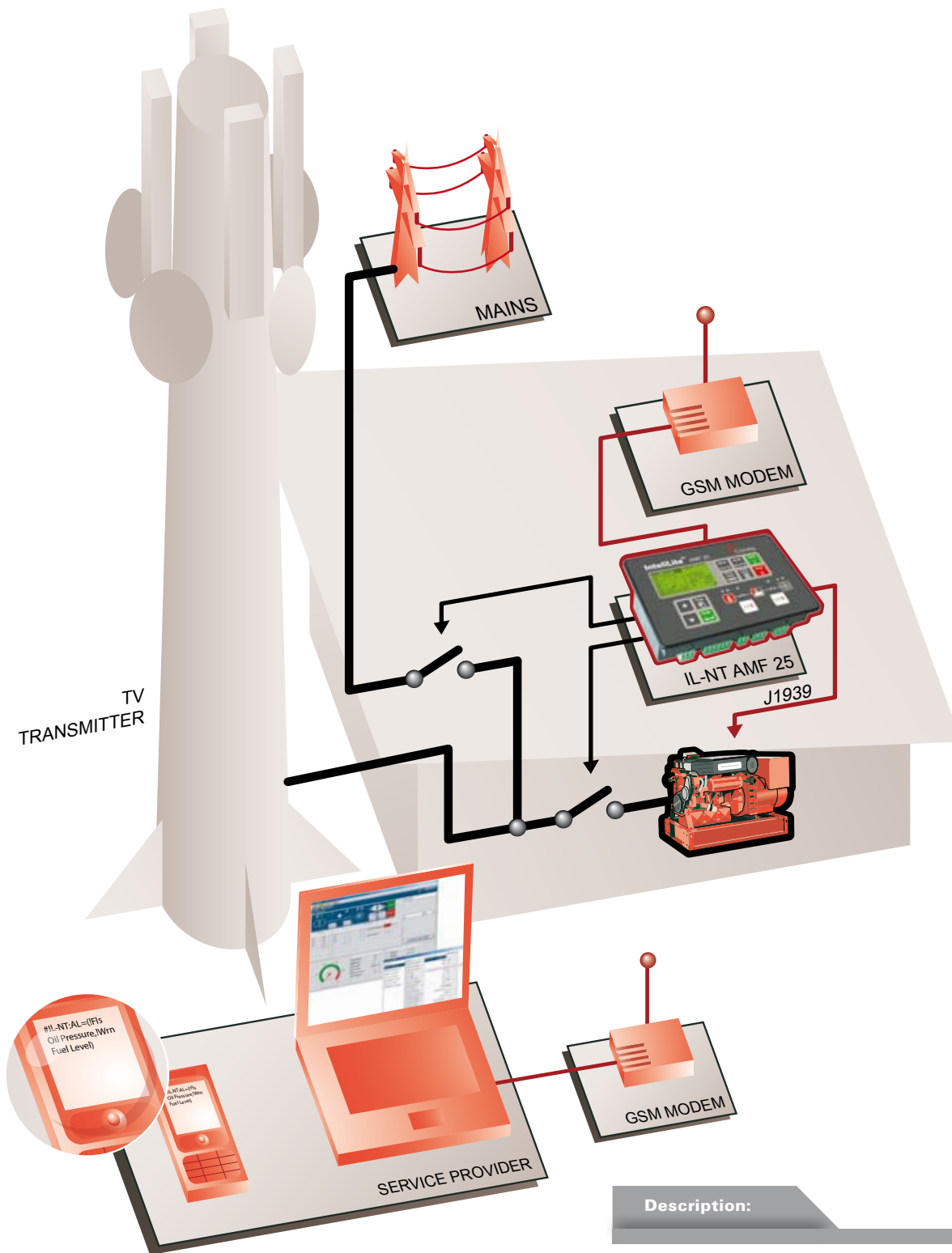
Scope of supply:

- 1× IL-NT MRS 16
- 1× IL-NT RS232
- 1× GSM modem (not delivered by ComAp)

LIGHTHOUSE

GSM MODEM

IL-NT MRS 16

J1939

#IL-NT:AL=(IFIs
Oil Pressure,IWrn
Fuel Level)

SERVICE PROVIDER

GSM MODEM

Standby system
– remote monitoring via GSM

MAINS

GSM MODEM

TV TRANSMITTER

IL-NT AMF 25

J1939

#IL-NT:AL=(IFIs
Oil Pressure,Wrn
Fuel Level)

SERVICE PROVIDER

GSM MODEM

Scope of supply:

- 1× IL-NT AMF 25
- 1× IL-NT RS232
- 1× GSM modem (not delivered by ComAp)

Description:

- Stand-by gen-set with electronic engine. IL-NT AMF 25 continuously monitors a mains supply and automatically starts an engine and switches load to a standby generator set in case of mains failure.
- Service provider can monitor gen-set operation remotely via GSM modem.
- Generator is protected by built in over/under voltage and frequency protections and IDMT overcurrent protection.
- Controller communicates with engine management unit by CAN J1939 bus. Engine values and alarms are visible on graphical LCD screen in plain language – no need to learn cryptic flashing or numeric error codes.

Standby system with soft return
## – remote supervision via Internet
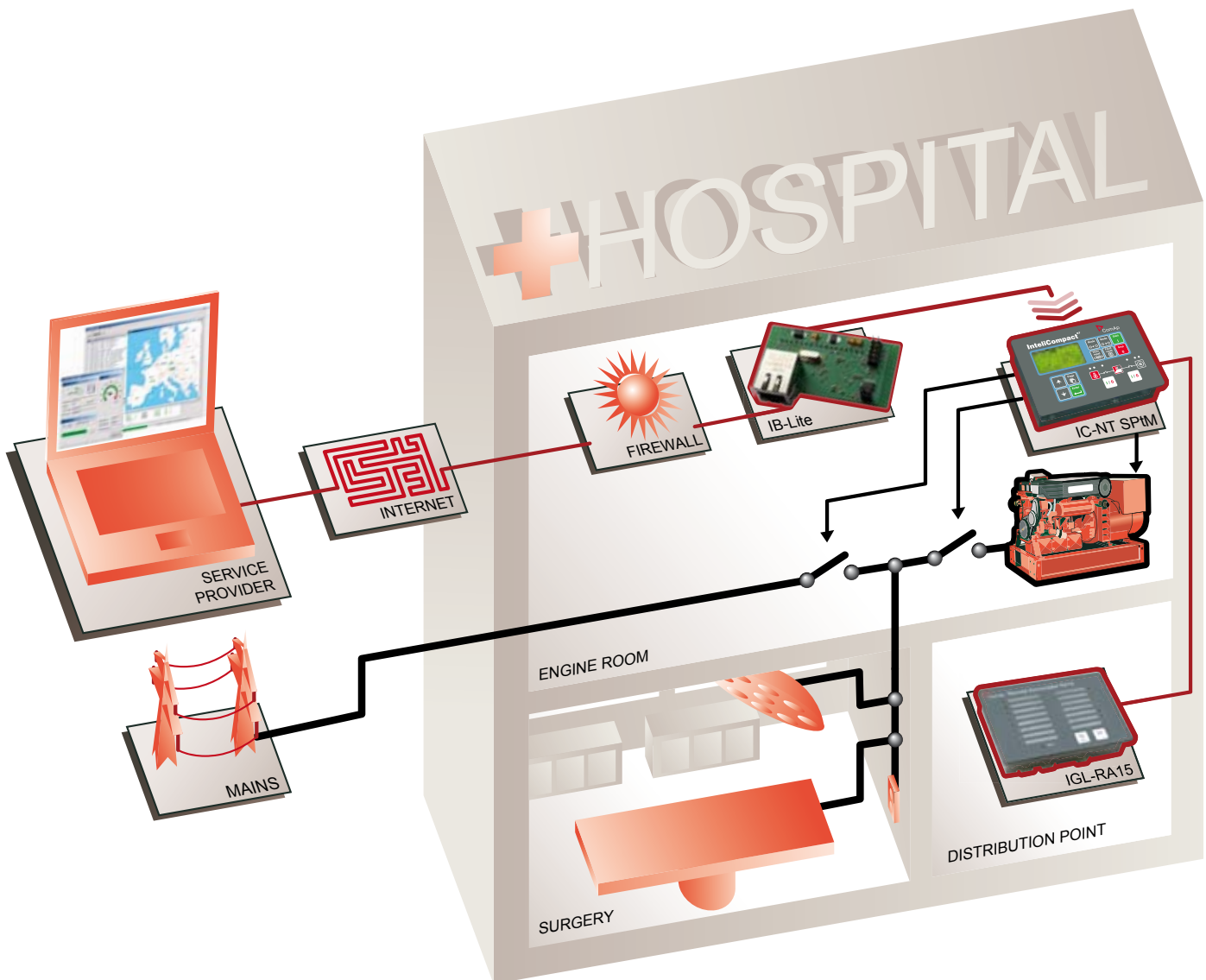
Description:

- Stand-by emergency gen-set accomplishes power supply to essential load during power drop.
- Controller automatically starts the gen-set in case of mains failure and switches load to generator. When mains returns, it synchronizes the generator back, softly unloads it and stops the engine.
- Generator automatically synchronizes to mains in Test mode. Test mode can be used to check the gen-set condition and to provide uninterrupted power supply in case of expected mains failure.
- Status of the gen-set is displayed in the distribution point.
- Service contractor connected via Internet and InteliSupervisor PC software has complete information on status and performance of gen-sets. Each important alarm immediately pops-up on PC screen.
- InteliSupervisor is used for supervision of complete fleet of gen-sets located on many sites.
- History file with performance log stored in IC-NT SPtM allows easy backtracking and problem solving.
- Seamless communication with engine's electronic injection control unit, all important values and alarms are visible on screen of InteliCompact[NT] and stored to the history file in plain language.

Scope of supply:

- 1× IC-NT SPtM
- 1× IG-AVRi
- 1× IG-AVRi-TRANS/LV
- 1× IB-Lite

Multiple gensets in parallel to grid
– remote monitoring and supervision via Internet
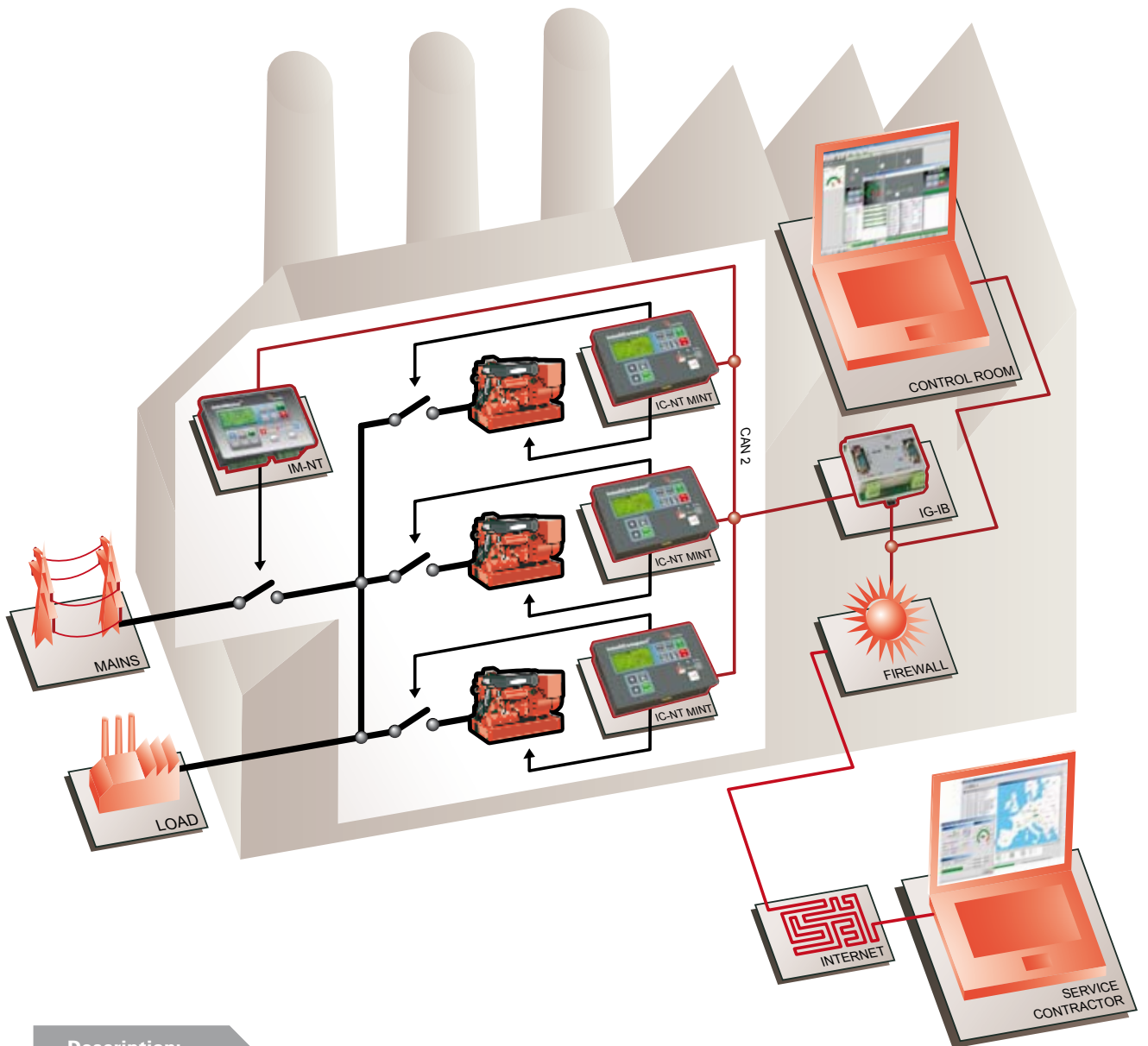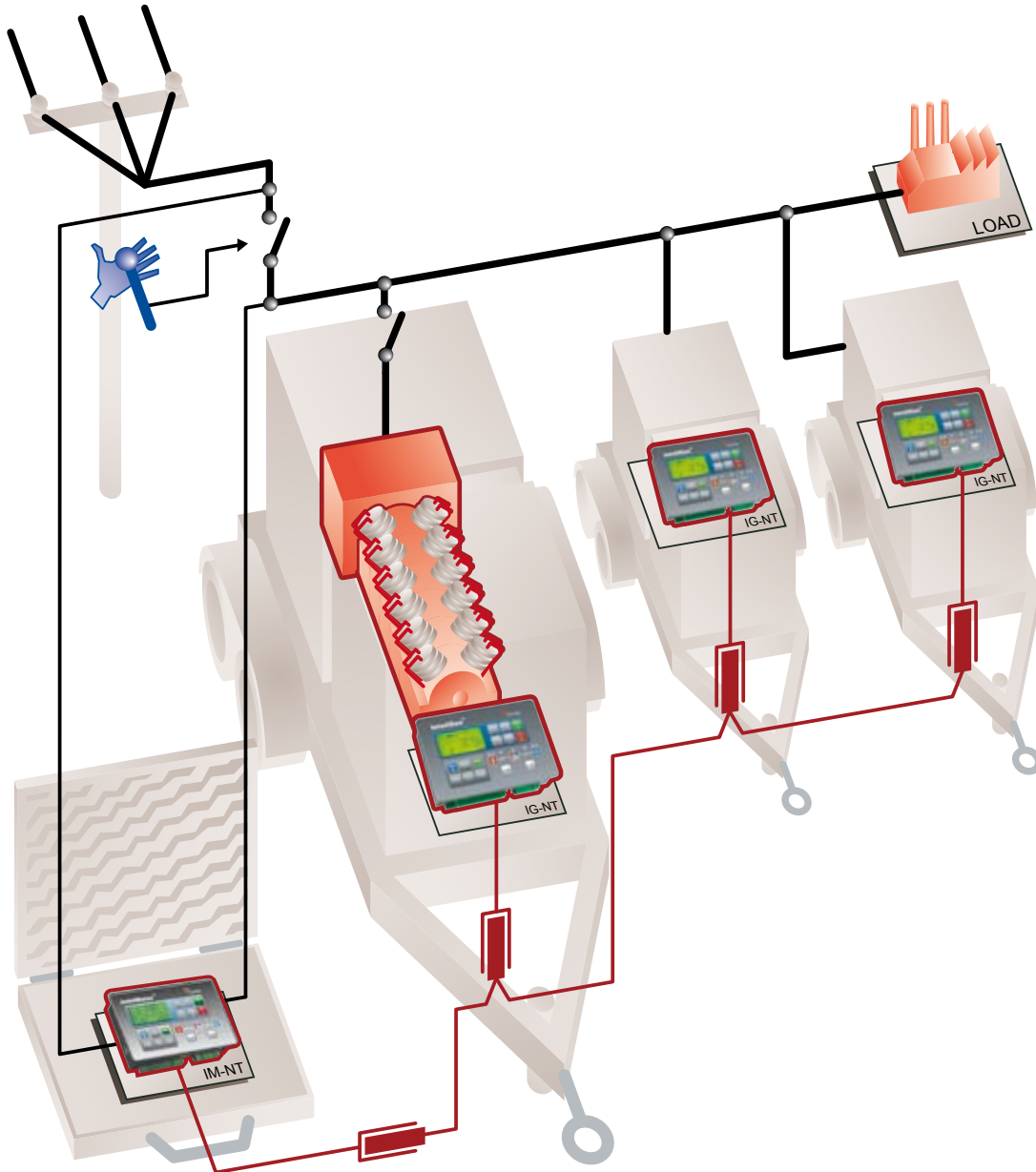

Description:

- Fully automatic system reduces electric energy bill by keeping the mains power below high tariff level during peak hours.
- At the same time it accomplishes emergency standby power in case of mains failure.
- Remote control and monitoring uses available factory LAN for connection between a Power house and a Control room
- Service contractor connected via Internet and InteliSupervisor PC software has complete information on status and performance of gen-sets. Each important alarm immediately pops-up on PC screen.
- InteliSupervisor is used for supervision of complete fleet of gen-sets located on many sites.
- Wide range of engine and generator protections, including vector-shift protection.
- Automatic forward and reverse synchronization with soft load ramp-up and ramp-down during changeover.
- Active and reactive load import/export control and load-sharing.
- Automatic optimization of number of running sets according to load.
- Peak loping controlled by built in Scheduler, engines automatically run during peak period.
- History file with performance log stored in IC-NT MINT allows easy backtracking and problem solving.
- Seamless communication with engine's electronic injection control unit, all important values and alarms are visible on screen of InteliCompact^{NT} and stored to the history file in plain language.

Scope of supply:

- 3× IC-NT MINT
- 3× IG-AVRi
- 3× IG-AVRi-TRANS/LV

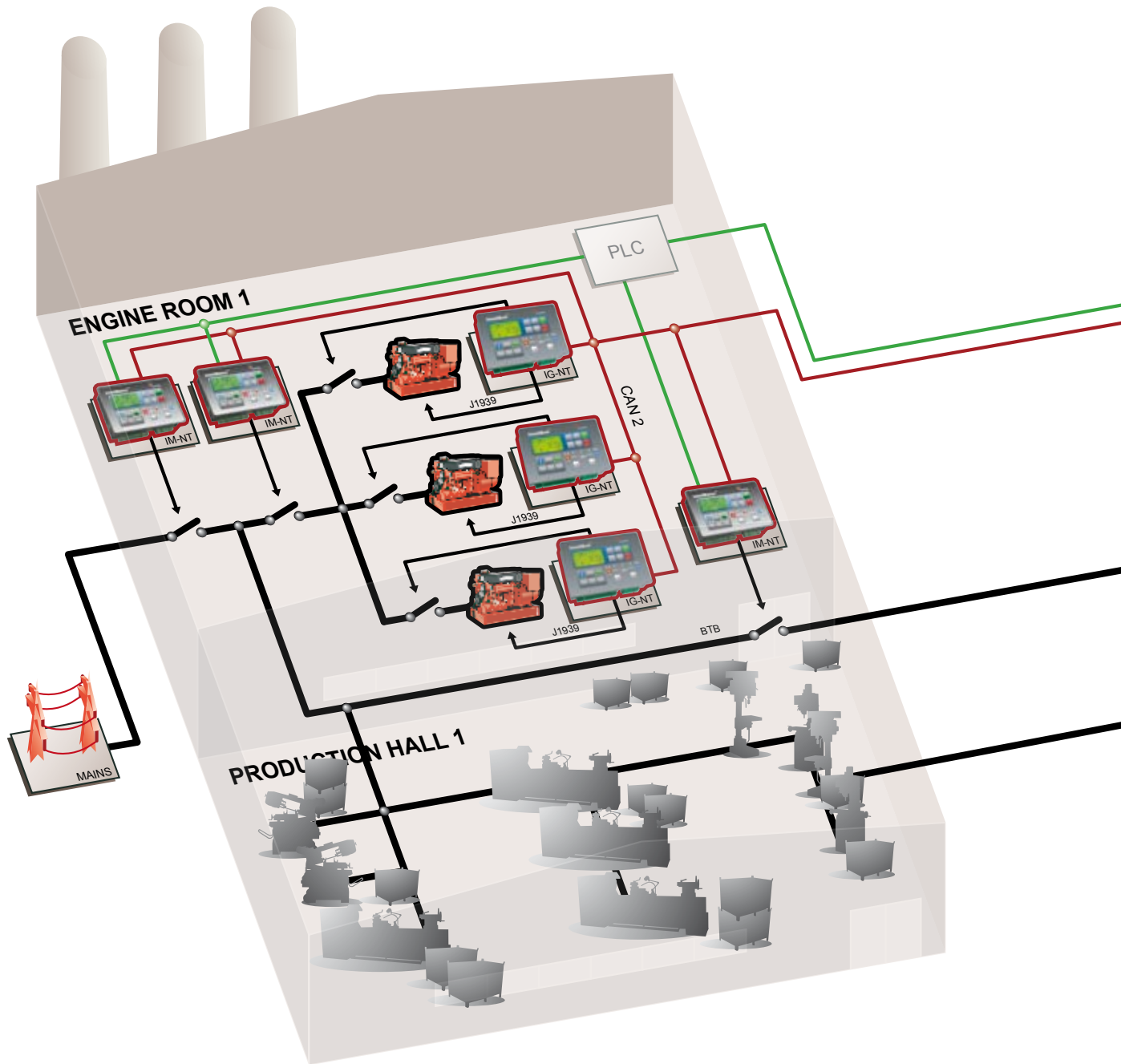- 1× IM-NT
- 1× IG-IB
- 1× IG-IB3 dongle

Rental sets

Description:

- Containerized rental gen-sets can be used for maintenance of power lines without interruption of power delivery to end consumer.
- Gen-sets are connected one-by-one to mains at the consumer's end and manually loaded. Power line is then manually disconnected and consumer is powered from generators running in parallel.
- The group of gen-sets is reverse synchronized to mains after finalization of maintenance on power line. InteliMains[NT] keeps generators and mains in synchronism enabling manual reconnection to power line.
- InteliMains[NT] is built in a small shock proof suitcase.
- Interconnection of containers is done by color coded not-interchangeable connectors.
- Each gen-set can be used in Stand-by, Single parallel to mains and Multiple parallel modes according to the position of Mode selector switch.
- Frequency selector enables switching between 50Hz/230V and 60Hz/277V mains.
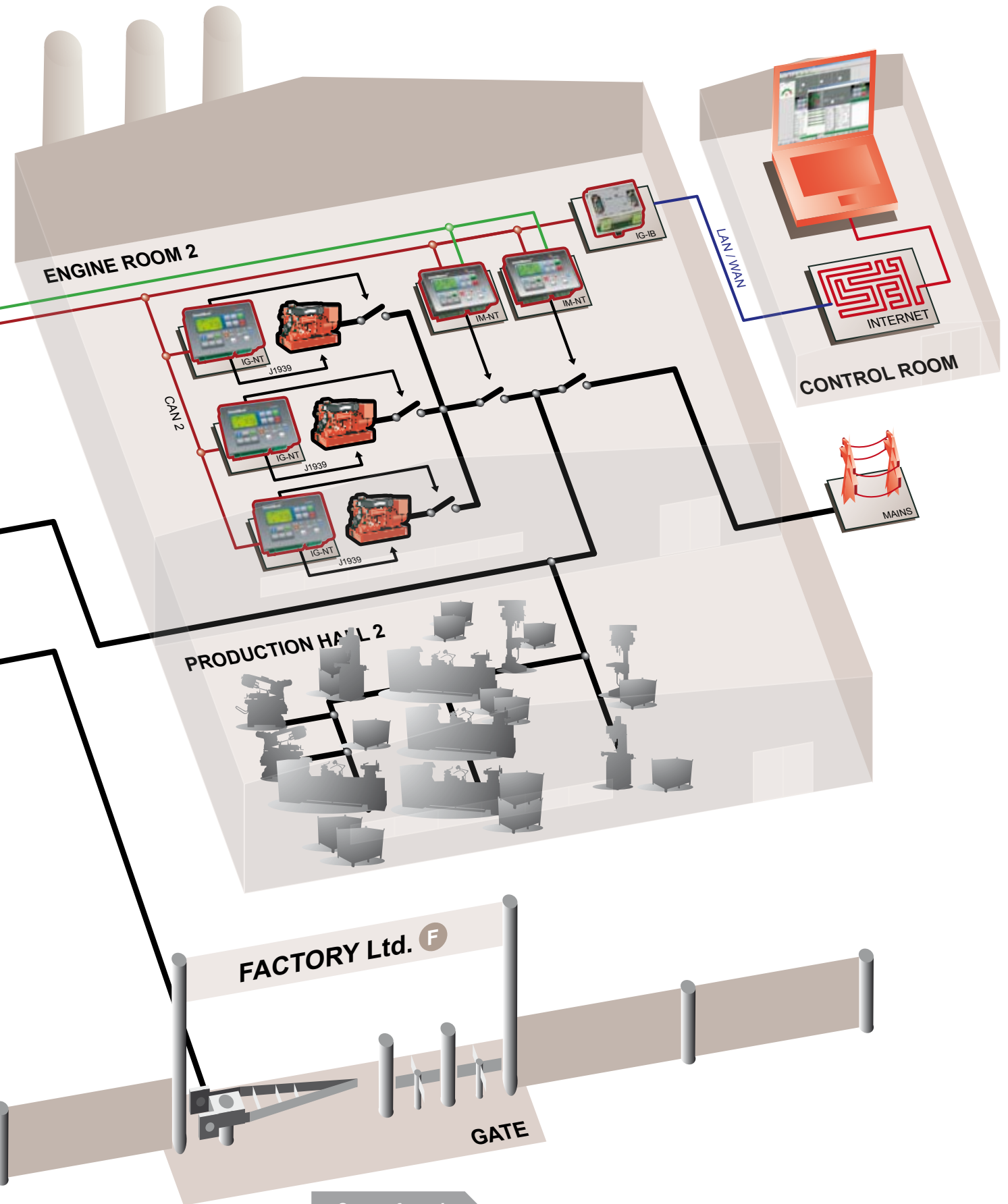
Scope of supply:

- 3× IG-NT
- 3× IGS-NT-LSM+PMS dongle
- 3× IG-AVRi
- 3× IG-AVRi-TRANS/LV
- 1× IM-NT

ComAp   71

Complex installation
– multiple grids

ENGINE ROOM 1

PLC

IM-NT

IM-NT

IG-NT

J1939

CAN 2

IG-NT

J1939

IG-NT

J1939

IM-NT

BTB

MAINS

PRODUCTION HALL 1

Description:

- Essential load is fed by two mains feeders during normal operation to achieve maximum reliability of the power delivery. Bus-tie breaker (BTB) is closed.
- Complex switching algorithm running in external PLC defines which breakers are opened and which are closed independent on availability of two mains and gen-sets.
- Reverse synchronizing on both feeders and on bus-tie breaker is accomplished by 5 InteliMains[NT] modules controlled by external PLC.
- Active and reactive load-sharing can operate in two modes:
  – Sharing the load between all running gen-sets – if BTB is closed
  – Sharing the load in two independent groups – if BTB is opened

- Automatic power dependant start/stop can operate in two modes as well:
  – Running on all gen-sets – if BTB is closed
  – Running in two independent groups – if BTB is opened
- All controllers are interconnected by one CAN bus all the time, disregarded if BTB is closed or open, no need for relays reconnecting the CAN bus.
- Complete system is remotely controlled and supervised from Control room connected via company LAN and IG-IB to all controllers.

ENGINE ROOM 2

IG-NT
J1939

CAN 2

IG-NT
J1939

IG-NT
J1939

IM-NT

IM-NT

IG-IB

LAN / WAN

INTERNET

CONTROL ROOM

MAINS

PRODUCTION HALL 2
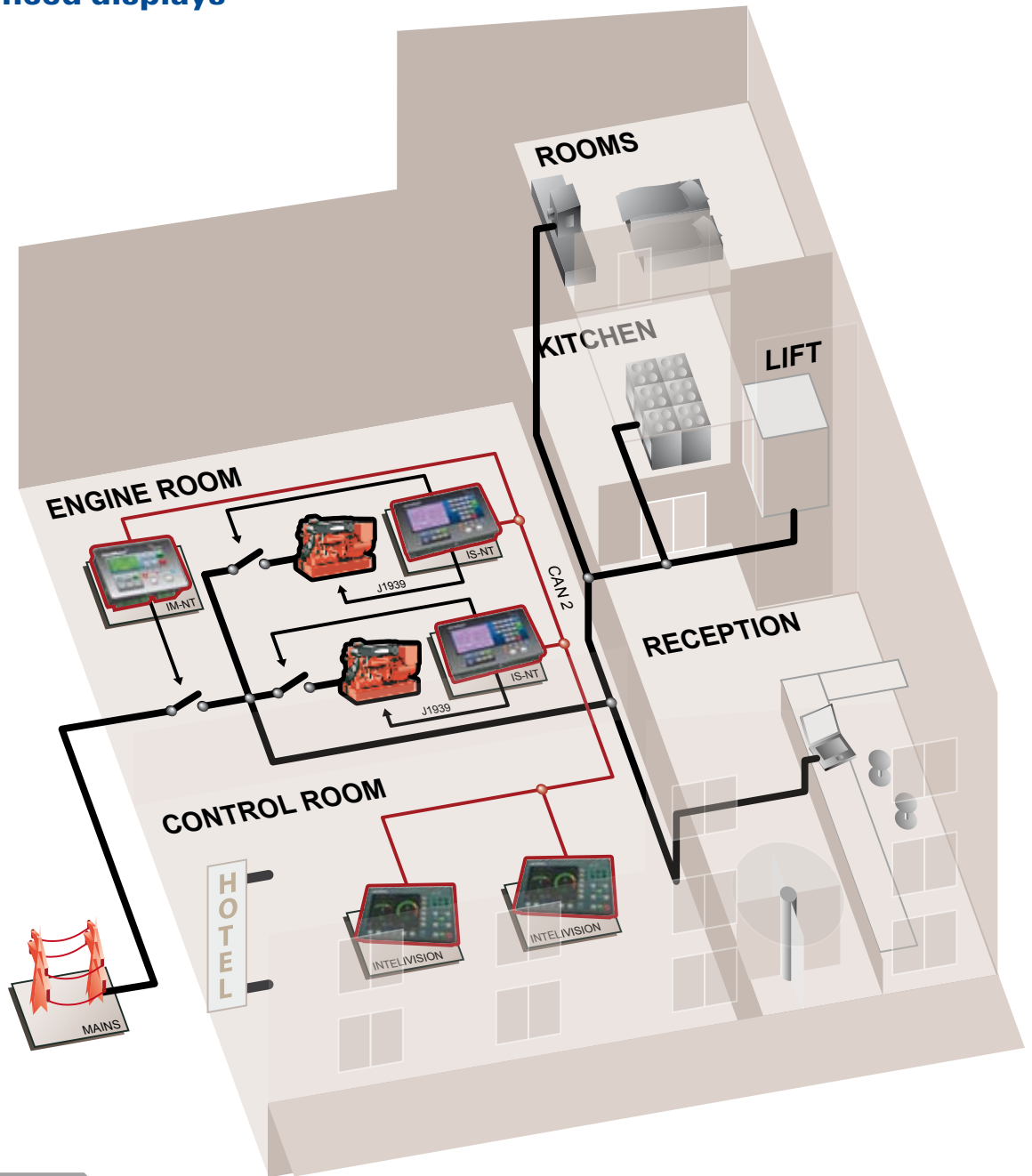
FACTORY Ltd. **F**

GATE

Scope of supply:

- 6× IG-NT
- 6× IGS-NT-LSM+PMS dongle
- 6× IG-AVRi

- 6× IG-AVRi-TRANS/LV
- 5× IM-NT
- 1× IG-IB

- 1× IG-IB 15 dongle
- 1× optional PLC
  (not delivered by ComAp)

Standby system with load shedding
– advanced displays

ROOMS

KITCHEN

LIFT

ENGINE ROOM

IS-NT

J1939

IM-NT

CAN 2

IS-NT

J1939

RECEPTION

CONTROL ROOM

H O T E L

INTELIVISION

INTELIVISION

MAINS

Description:

- The system guarantees emergency standby power in case of mains failure.
- IM-NT provides AMF function and activates mains to gen-sets changeover in the case of mains failure no break return to mains.
- Load shedding can take place during the changeover to trip the unessential load when gen-set goes to island.
- Gen-set starts, the power is ramped-up, load is reconnected. The second gen-set is started if needed (more load requires more gen-set power).
- Automatic forward and reverse synchronisation with soft load ramp-up and ramp-down during changeover is available.
- Wide range of engine and generator protections, including vector shift protection are standard features.
- Automatic optimization of number of running sets according to load can be selected.
- Automatic equalization of running hours of particular engines is available.
- The second gen-set can be used as a backup set.
- History file with performance log stored in IS-NT allows easy backtracking and problem solving.

Scope of supply:

- 2× IS-NT
- 2× IGS-NT-LSM+PMS dongle
- 2× InteliVision
- 1× IM-NT
- 2× IG-AVRi
- 2× IG-AVRi-TRANS/LV
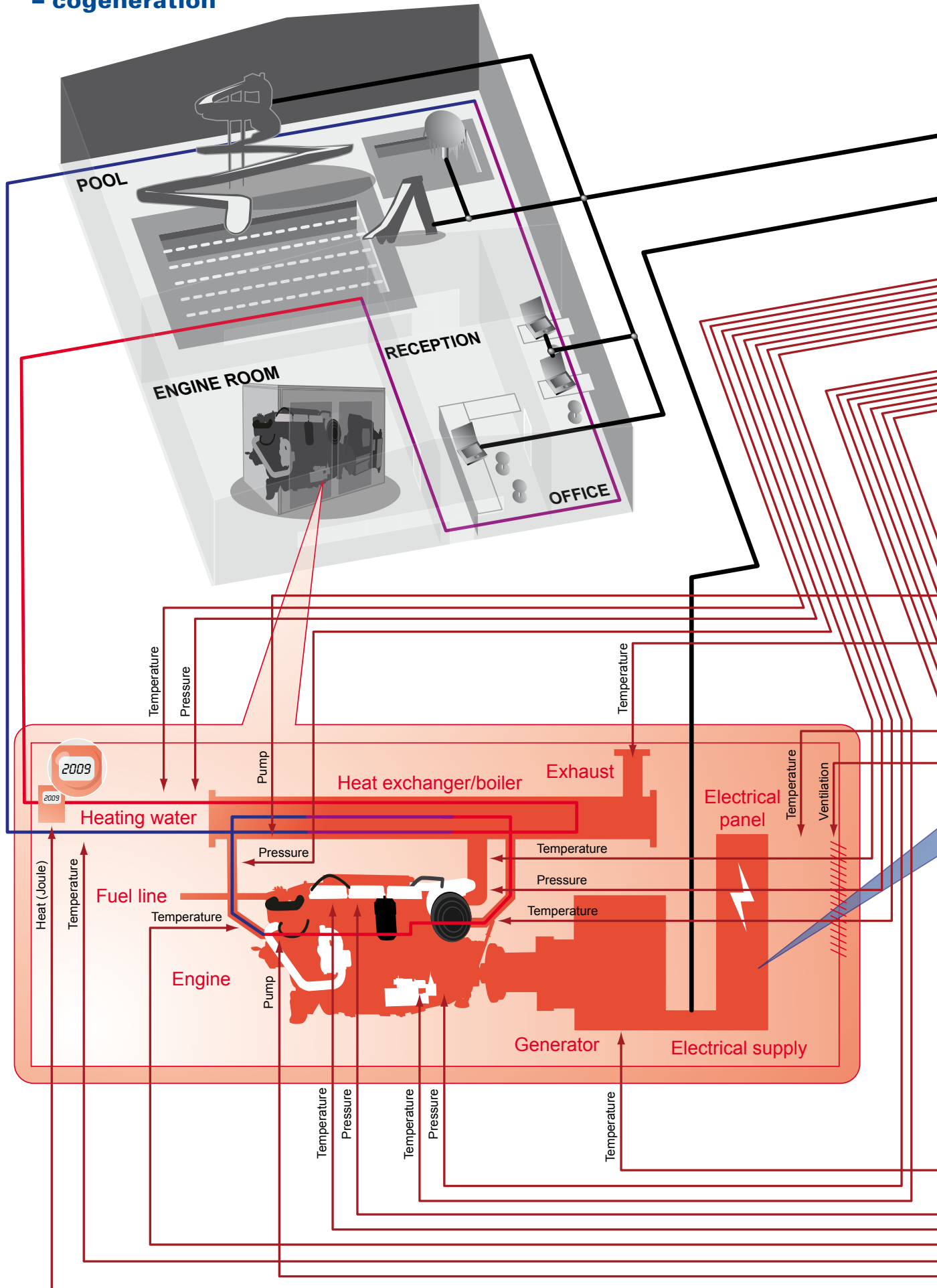
More loads
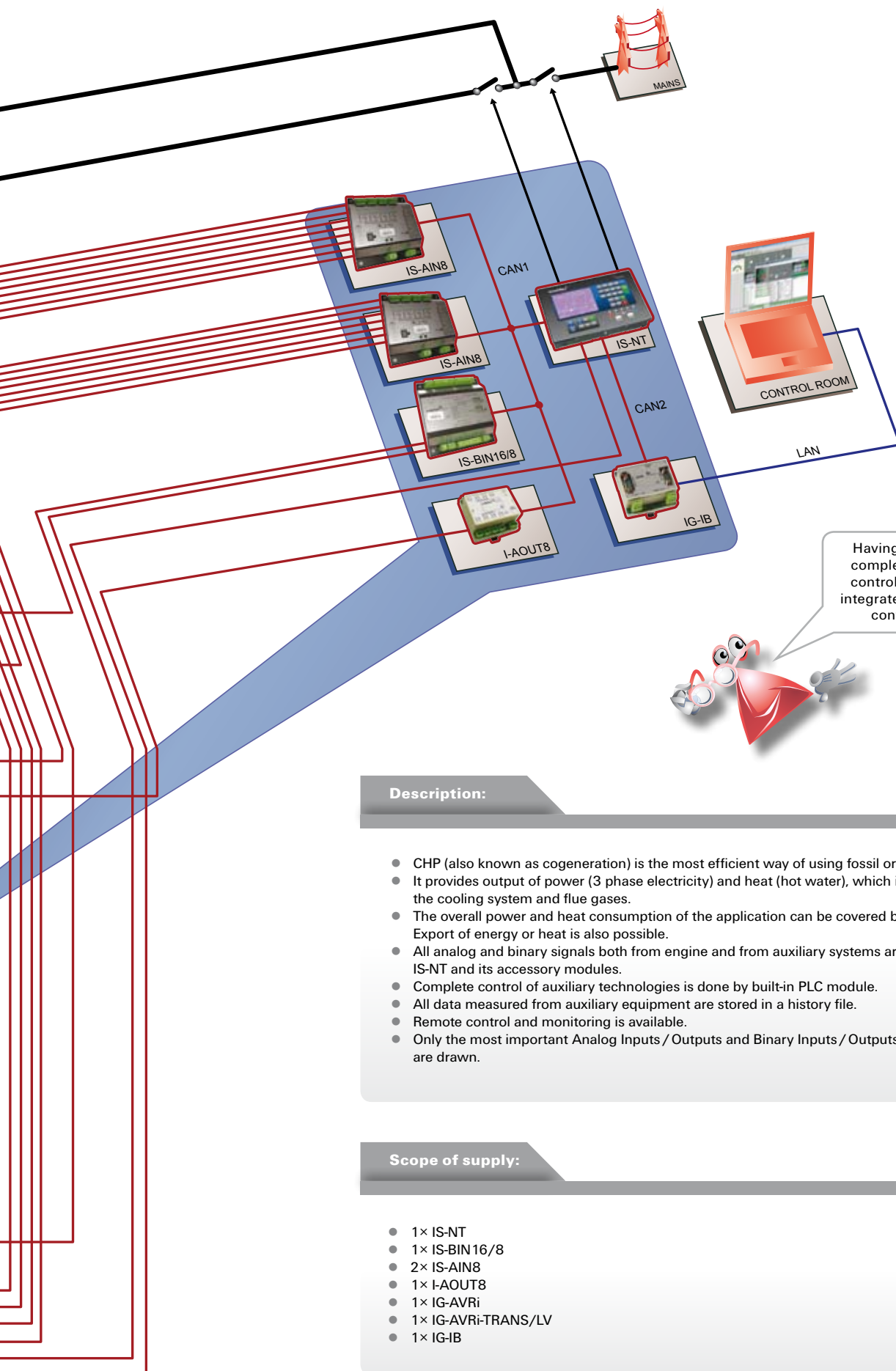## – multiple grids
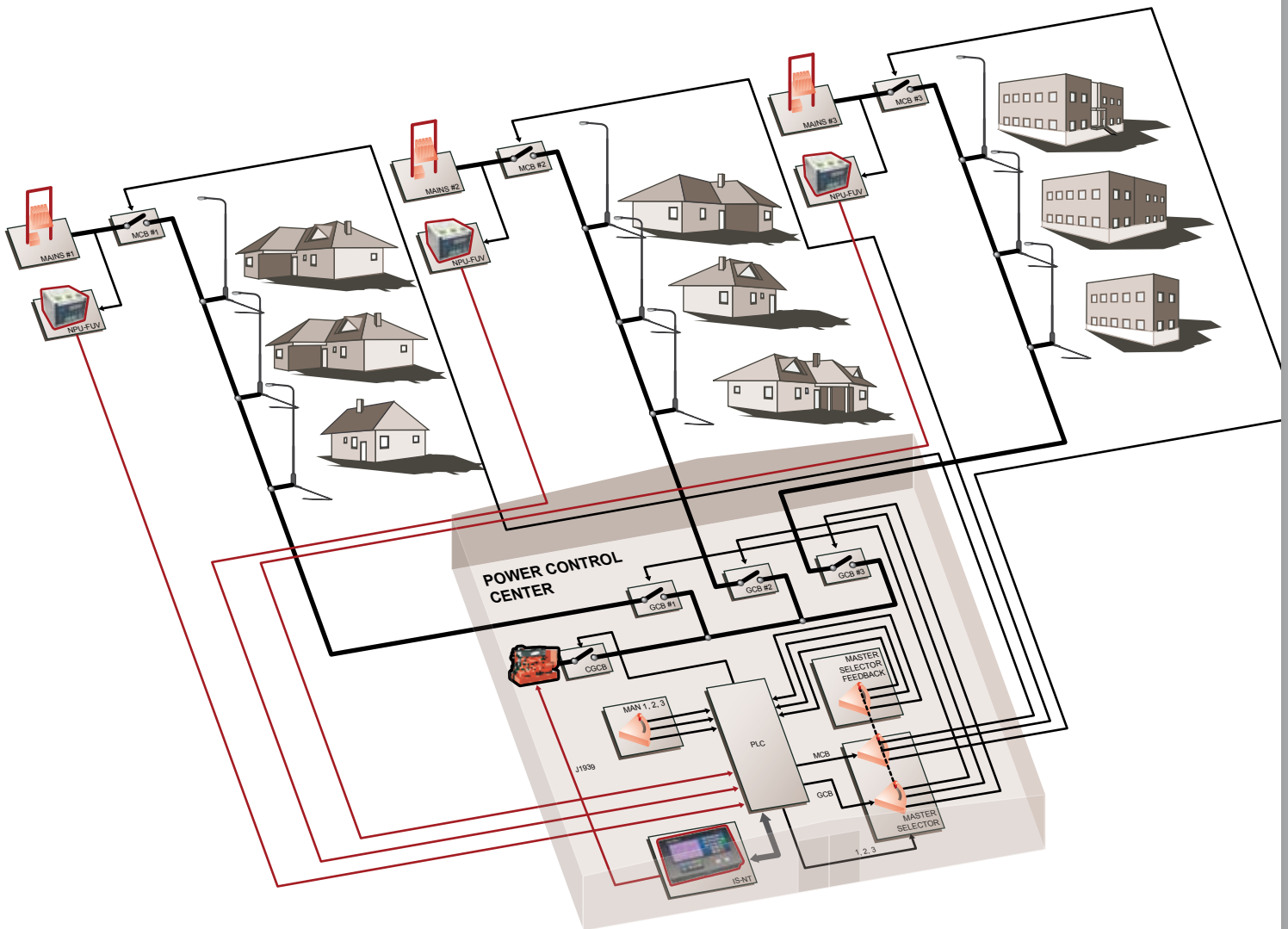
Description:

- In case of manipulation, the system switches from one branch to another by turning of the Master Selector Switch (MSS): BO MSS turn is used to turn the MSS.
- The mains voltage measurement, generator current measurement, MCB and GCB feedbacks, MCB and GCB control signals and Mains Failure (MF) signals (NPU outputs) are switched by the MSS, so that the system continuously "sees" only the selected branch.
- MCB and GCB are operated by pulse signal (GCB open/close, MCB close). The pulse is issued as a request for CB operation and terminated at the moment of corresponding feedback receipt.
- The NPU relays monitor mains on all 3 branches. In case of any MF, the gen-set is started.
- In case of MF on any branch, the proper NPU opens MCB, MSS switches to the failed branch and closes GCB.
- If a MF occurs on a different branch at the same moment, the controller finishes manipulation of GCB, MSS switches to a different branch and closes the other GCB.
- After an existing MF state terminates on any branch, the MSS turns to this branch, IS-NT reverse-synchronizes and closes MCB and opens GCB. Short-time parallel is allowed on the current branch.
- The MSS is blocked from moving away from a branch, where:
  – parallel operation is in effect
  – GCB open/close or MCB close signals are active
  – MF signal is in effect and GCB is open
- In case that all existing MF are solved and all GCB's are open, the gen-set stops.

Scope of supply:

- 1× IS-NT
- 3× NPU
- 1× IG-AVRi
- 1× IG-AVRi-TRANS
- 1× PLC (not delivered by ComAp)
- 1× Motorized rotary switch with 3 × 16 contacts (not delivered by ComAp)

Combined heat and power (CHP)
– cogeneration

POOL

ENGINE ROOM

RECEPTION

OFFICE

2009

2009

Heating water

Heat exchanger/boiler

Exhaust

Electrical panel

Temperature

Pressure

Pump

Temperature

Temperature

Ventilation

Pressure

Temperature

Pressure

Temperature

Heat (Joule)

Temperature

Fuel line

Temperature

Engine

Pump

Generator

Electrical supply

Temperature

Pressure

Temperature

Pressure

Temperature

MAINS

CAN1

IS-AIN8

IS-AIN8

IS-BIN16/8

IS-NT

CAN2

CONTROL ROOM

I-AOUT8

IG-IB

LAN

Having problems with the complexity of your current control system? InteliSys^{NT} integrates all functions in one convenient solution.
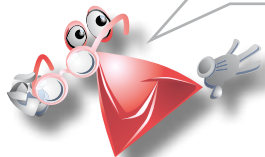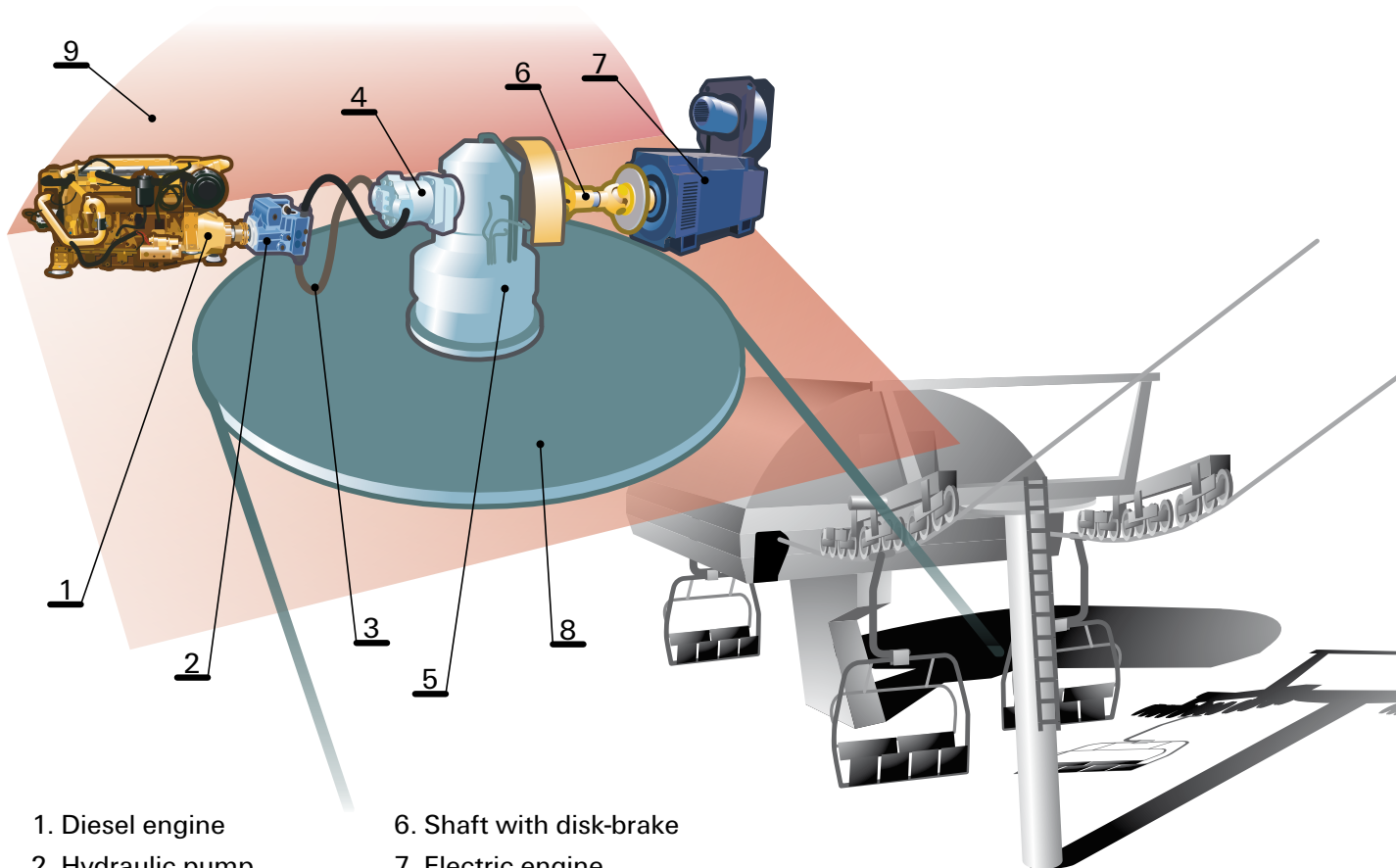
Description:

- CHP (also known as cogeneration) is the most efficient way of using fossil or renewable fuel.
- It provides output of power (3 phase electricity) and heat (hot water), which is recovered from the cooling system and flue gases.
- The overall power and heat consumption of the application can be covered by the CHP system. Export of energy or heat is also possible.
- All analog and binary signals both from engine and from auxiliary systems are measured by IS-NT and its accessory modules.
- Complete control of auxiliary technologies is done by built-in PLC module.
- All data measured from auxiliary equipment are stored in a history file.
- Remote control and monitoring is available.
- Only the most important Analog Inputs / Outputs and Binary Inputs / Outputs connections are drawn.

Scope of supply:

- 1× IS-NT
- 1× IS-BIN16/8
- 2× IS-AIN8
- 1× I-AOUT8
- 1× IG-AVRi
- 1× IG-AVRi-TRANS/LV
- 1× IG-IB

Emergency drive for sky lift

1. Diesel engine
2. Hydraulic pump
3. High pressure hoses
4. Hydraulic motor
5. Reducer

6. Shaft with disk-brake
7. Electric engine
8. Driven bullwheel
9. Drive station

Description:

- The drive station of the chairlift is normally geared by a big electric motor with frequency converter by means of a short shaft and a big reducer.
- Diesel engine is used as an emergency drive in case of mains failure. It drives the lift via an engine-mounted hydraulic pump and hydraulic motor on the reducer.
- Engine is controlled and protected by ID-Lite, which communicates with engine's electronic injection control unit via CAN communication bus.

Scope of supply:

- 1× InteliDrive Lite

Hydraulic of shearing machine

Kp = proportional gain
Kd = derivative gain
Ki = integral gain
il = integral limit
HP = hydraulic pump
PS = pressure sensonr

ID-DCU

Pressure

Speed request

J1939

DIESEL ENGINE

HYDRAULIC PUMP

CONTROL VALVES

HYDRAULIC RESERVOIR
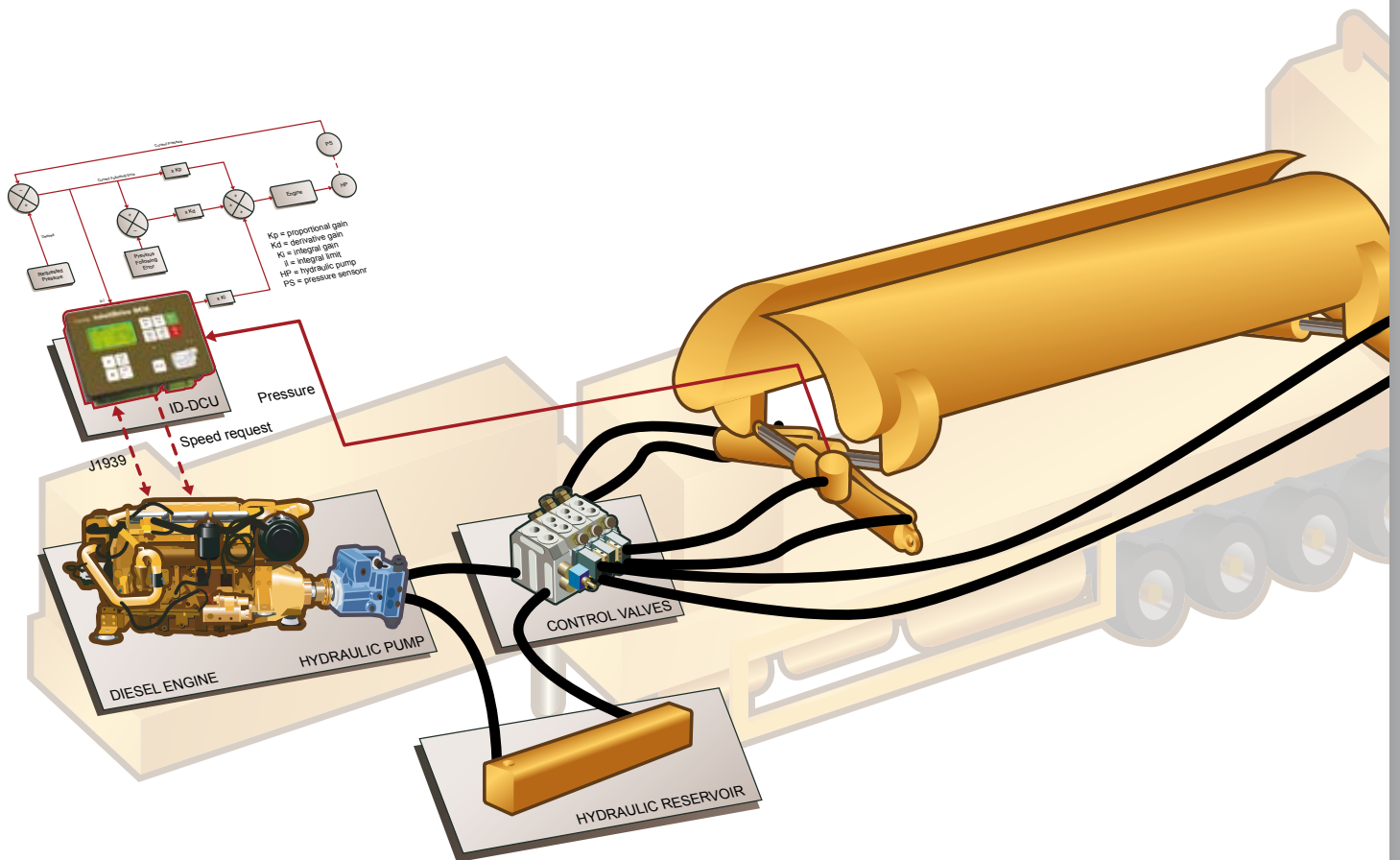
Description:

- Mobile hydraulic shear balers and fragmentizers, which are driven by diesel engines with electronic fuel injection and meet all of the latest emission standards.
- Subject machines are mainly used to compress scrap-metal and cut it into pieces, very useful for further processing.
- The ID-DCU Industrial oversees the complete, control, monitoring, fault-logging and protection of the machine operation.
- All information is visualized on the screen, including faults transmitted via CAN from the engine mounted ECU.
- The hydraulic sequences are controlled via integrated and enhanced PLC logics, as well as the engine-speed load is controlled via PID-loops.
- The advanced bi-directional CAN-Bus communication helps simplify the wiring to the engine.

Scope of supply:

- 1× ID-DCU Industrial

Irrigation pump system
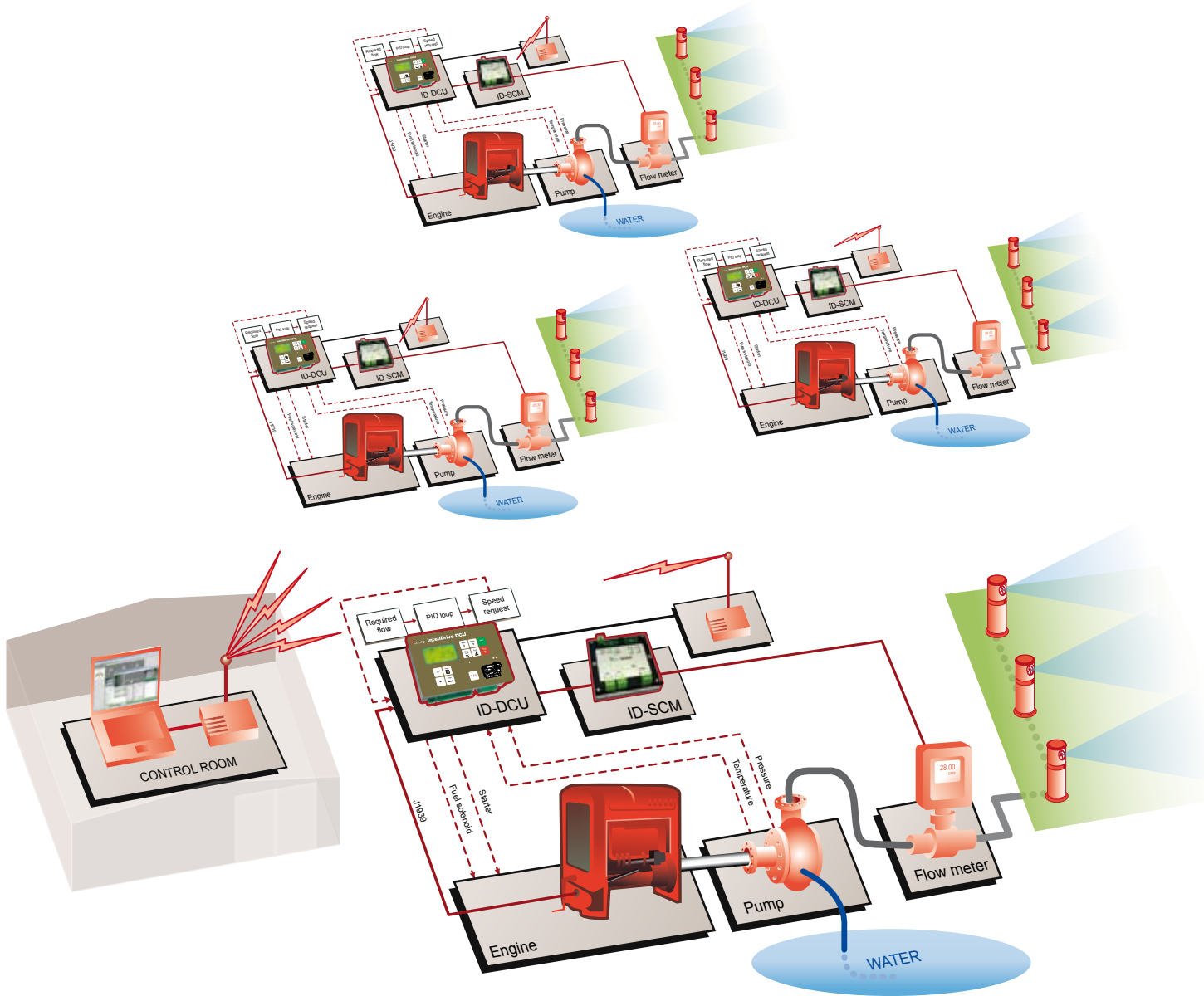
Description:

- Systems involving large numbers (over 10) of engine driven irrigation pumps controlled and monitored from one supervision point by radio or GSM modems.
- InteliDrive makes complete control, monitoring and protection of the engine.
- Water flow from a pump is measured by flow-meter with impulse output. Frequency of pulses, that is directly proportional to flow of water, is measured by module ID-SCM.
- Variable speed engine enables to change water flow according momentary need.
- Required flow is received via radio or GSM modem from a central supervision point and maintained by PID loop build in InteliDrive.

Scope of supply:

- 1× ID-DCU Industrial
- 1× ID-SCM
- 1× Radio or GSM modem (not delivered by ComAp)
- 1× Flow-meter (not delivered by ComAp)

Gas compressor
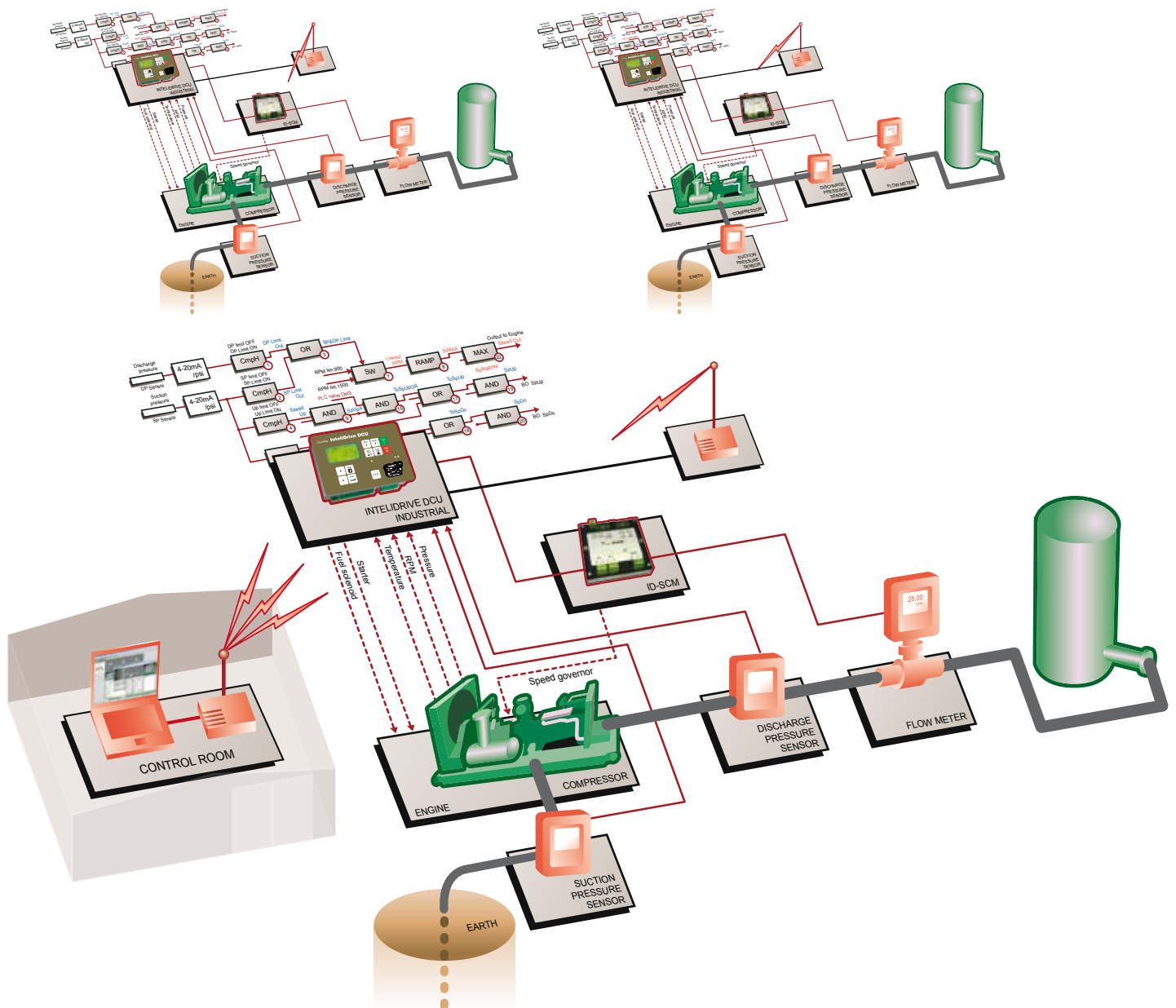
- Gas compressor is driven by a combustion engine.
- InteliDrive makes complete control, monitoring and protection of the engine and compressor.
- Sophisticated control algorithm using build-in PLC modules accomplishes optimal running conditions for the compressor.
- Speed of the engine is determined according to the suction and discharge pressures of the compressor.
- Additional unload and by-pass valves are controlled by InteliDrive in dependence on both suction and discharge pressures.
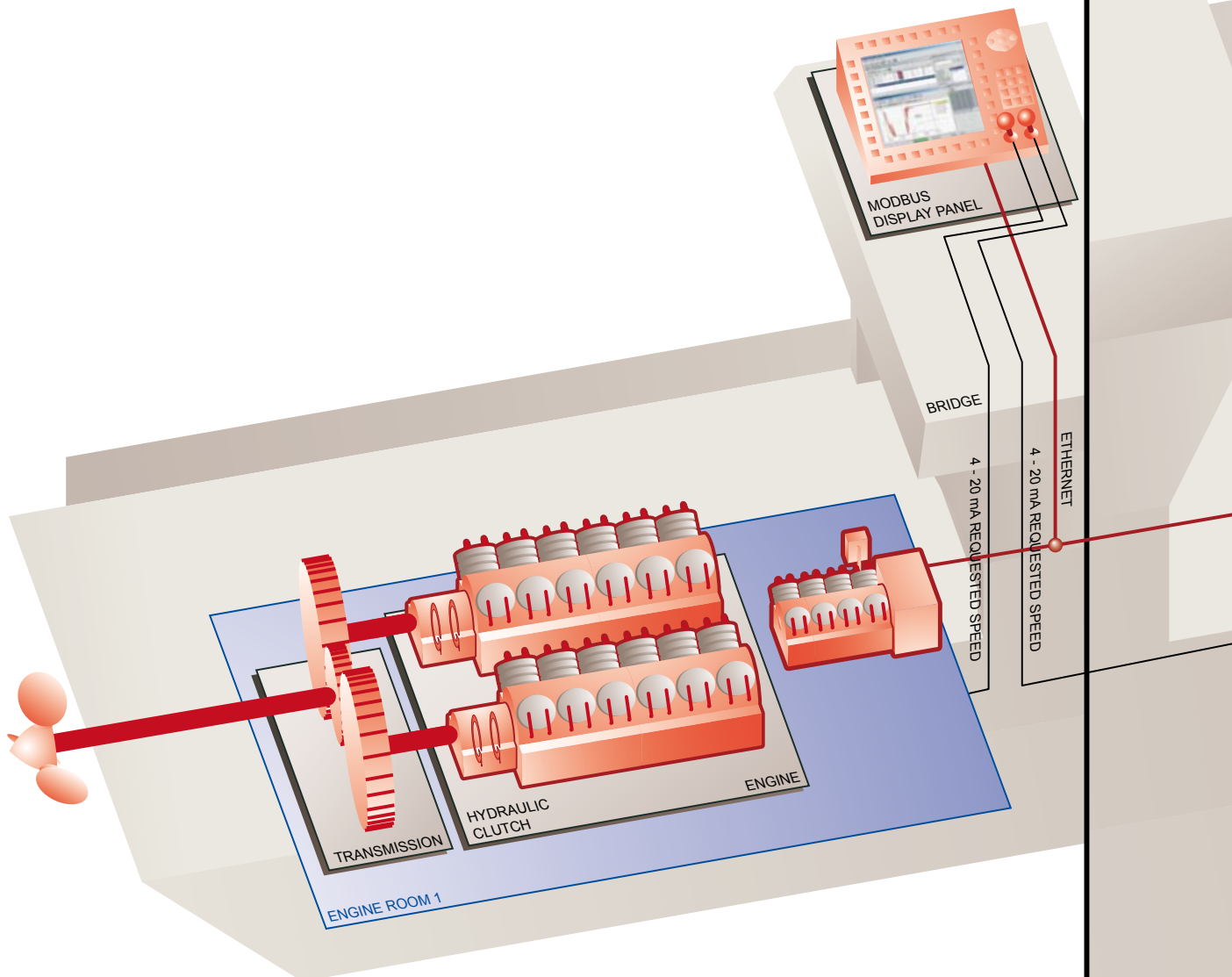
Scope of supply:

- 1× ID-DCU Industrial
- 1× ID-SCM
- 1× Radio or GSM modem (not delivered by ComAp)
- 1× Flow-meter (not delivered by ComAp)
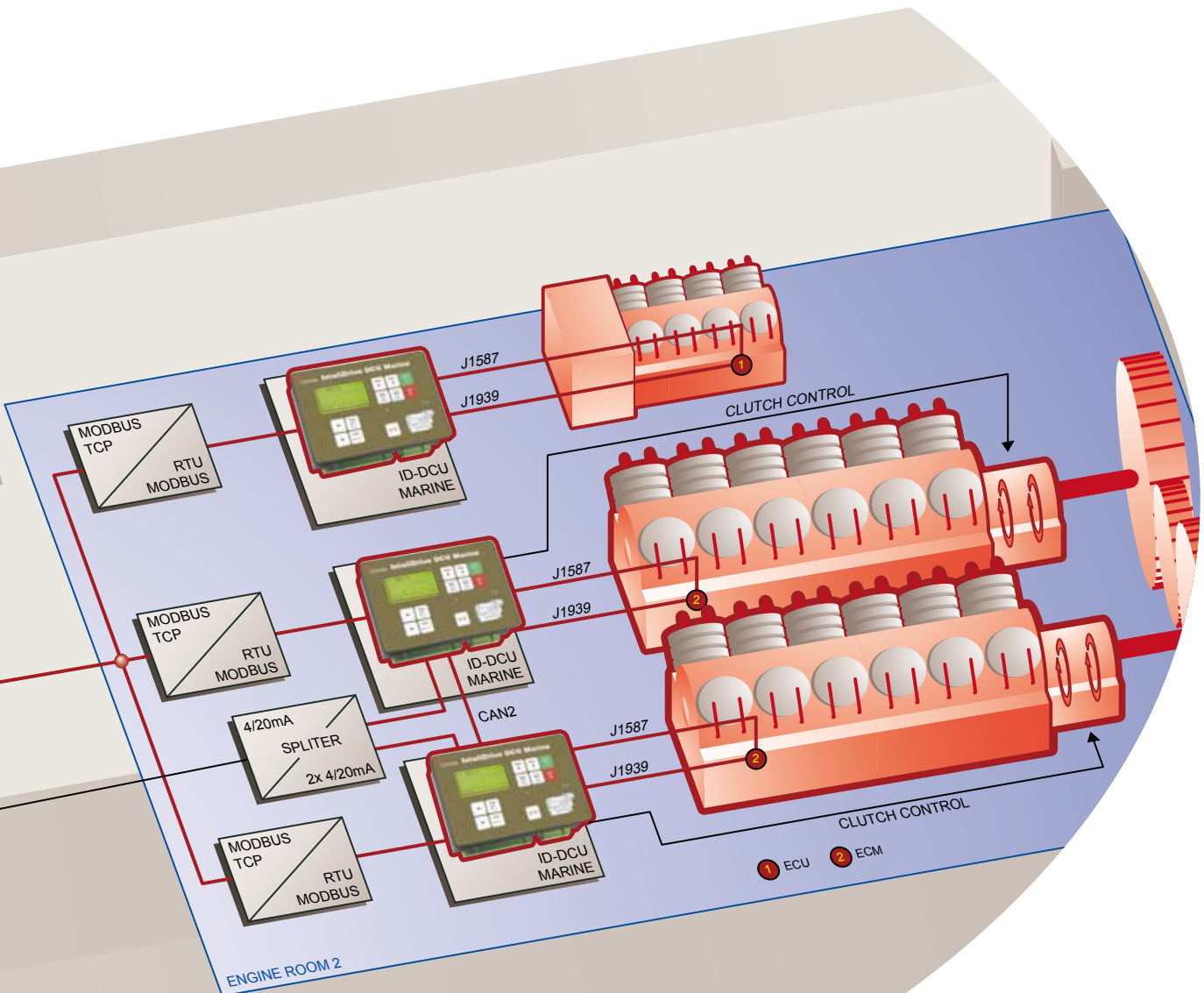
Ship control system

Description:

- Small ferries typically feature two propellers, one in bow and one in stern. Propellers can rotate by 360° to give requested maneuverability to the ferry.
- Each propeller is driven by two engines located in two separate engine rooms.
- In each engine room is also one auxiliary gen-set.
- Propulsion engines are controlled by InteliDrive Marine, in PROP configuration, via J1939 bus. Redundant J1587 bus is used in case of J1939 failure.
- Requested speed is defined by 4-20mA signal from the bridge.
- InteliDrive controllers make propulsion load-sharing to keep engines evenly loaded.
- Engines of auxiliary gen-sets are controlled by InteliDrive Marine in AUX configuration.
- InteliDrive controllers communicate to a ship's control and visualization system via Modbus RTU/TCP converter and Ethernet bus.
- Optimal configurable structure of InteliDrive's Modbus message together with high communication speed of Ethernet bus gives immediate information on engine speed and torque required on the bridge of a quickly maneuvering ship.

MODBUS
DISPLAY PANEL

BRIDGE

ETHERNET

4 - 20 mA REQUESTED SPEED

4 - 20 mA REQUESTED SPEED

TRANSMISSION

HYDRAULIC
CLUTCH

ENGINE

ENGINE ROOM 1

- 6× ID-DCU Marine
- 6× ID-RPU
- 4× ID-COM
- 6× Modbus RTU/TCP converter (not delivered by ComAp)

MODBUS TCP — **RTU MODBUS**

J1587

J1939

ID-DCU MARINE

CLUTCH CONTROL

MODBUS TCP — **RTU MODBUS**

J1587

J1939

ID-DCU MARINE

CAN2

4/20mA SPLITER — 2x 4/20mA

J1587

J1939

MODBUS TCP — **RTU MODBUS**

ID-DCU MARINE

CLUTCH CONTROL

1 ECU   2 ECM

ENGINE ROOM 2

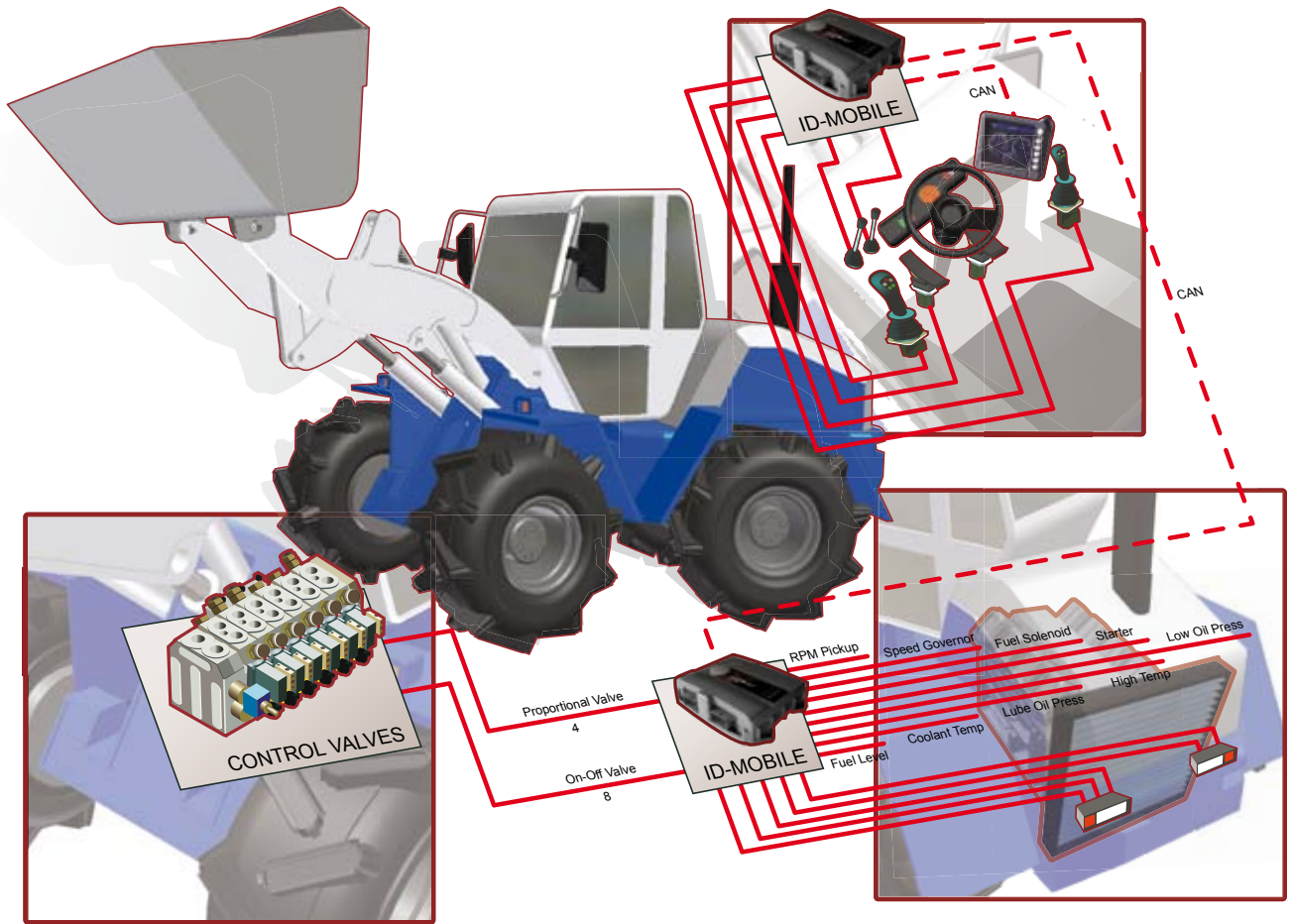No ordinary engine controller features engine speed control, monitoring, propulsion and load sharing. With ID-DCU Marine you get all this and more!

ComAp

83

Wheel loader

ID-MOBILE

CAN

CAN

CONTROL VALVES

Proportional Valve
4

On-Off Valve
8

ID-MOBILE

RPM Pickup

Speed Governor Fuel Solenoid Starter Low Oil Press

High Temp

Lube Oil Press

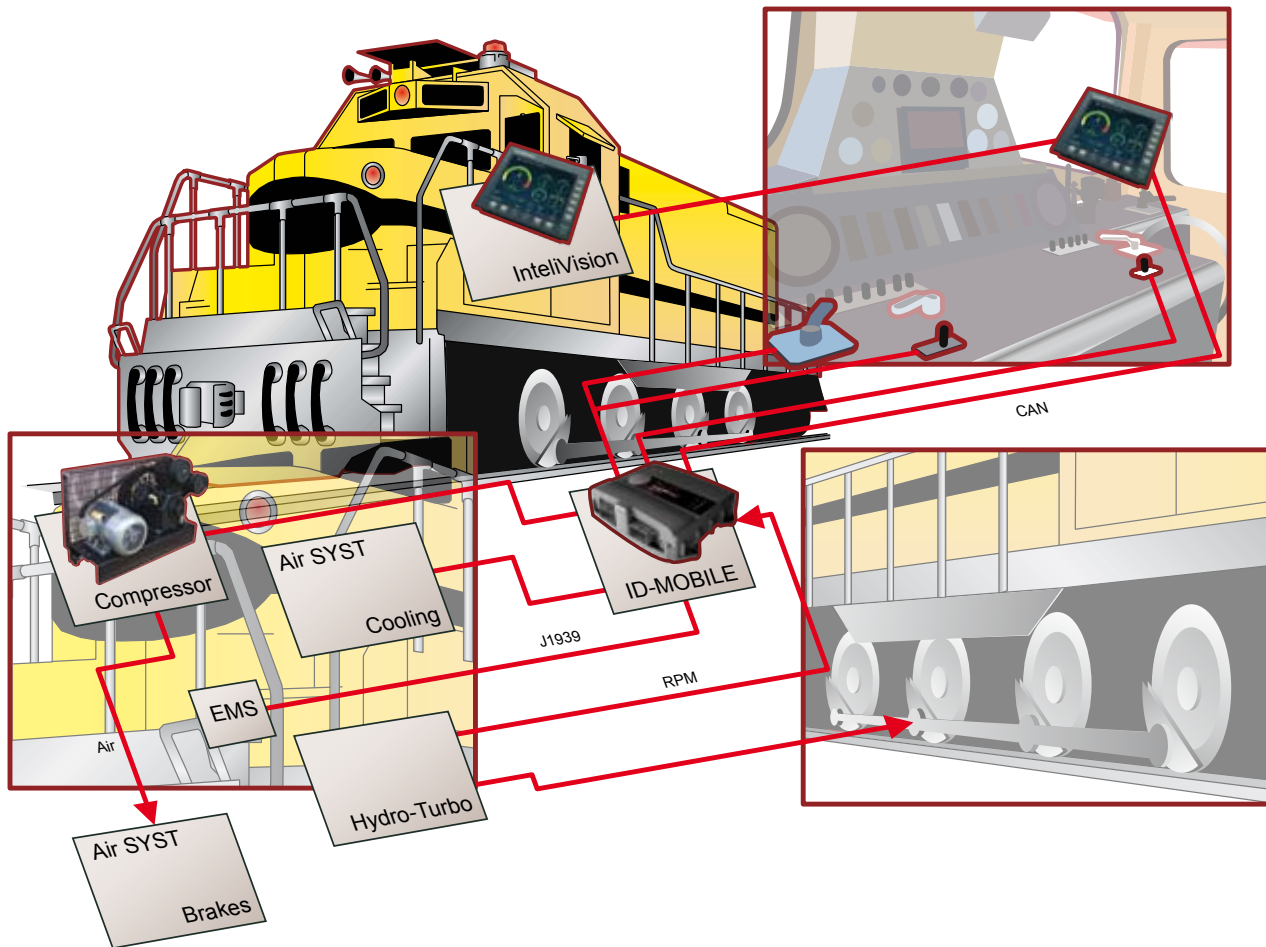Coolant Temp

Fuel Level

Description:

- Wheel loader application – where a standard (non-electronic) engine drives a hydraulic pump and produces high-pressure oil drives wheels through hydro-motors delivers power to all hydraulic cylinders and pistons.
- Two InteliDrive Mobile (ID-Mobile) controllers are utilized in the application. The first one, located in the driver's cabin, receives commands from the driver via two joysticks and various switches giving him complete information on machine status via a large color screen and a few pilot-lights. The second InteliDrive Mobile, located on the machine frame, controls and monitors the engine and various hydraulic control valves.
- Communication between the two InteliDrive controllers and the on-board display is via CAN line. This makes the system wiring and integration very simple.
- All values, warnings and fault codes from the engine are displayed on the on-board display.
- Control of the bucket level is via proportional hydraulic valves, control of wheel speed with anti-slip protection is via PWM hydraulic valves and all other control loops are realized by standard integrated free configurable control blocks.

Scope of supply:

- 2× InteliDrive Mobile
- 1× VGA Mobile display

Shunting loco

InteliVision

CAN

Compressor

Air SYST

Cooling

ID-MOBILE
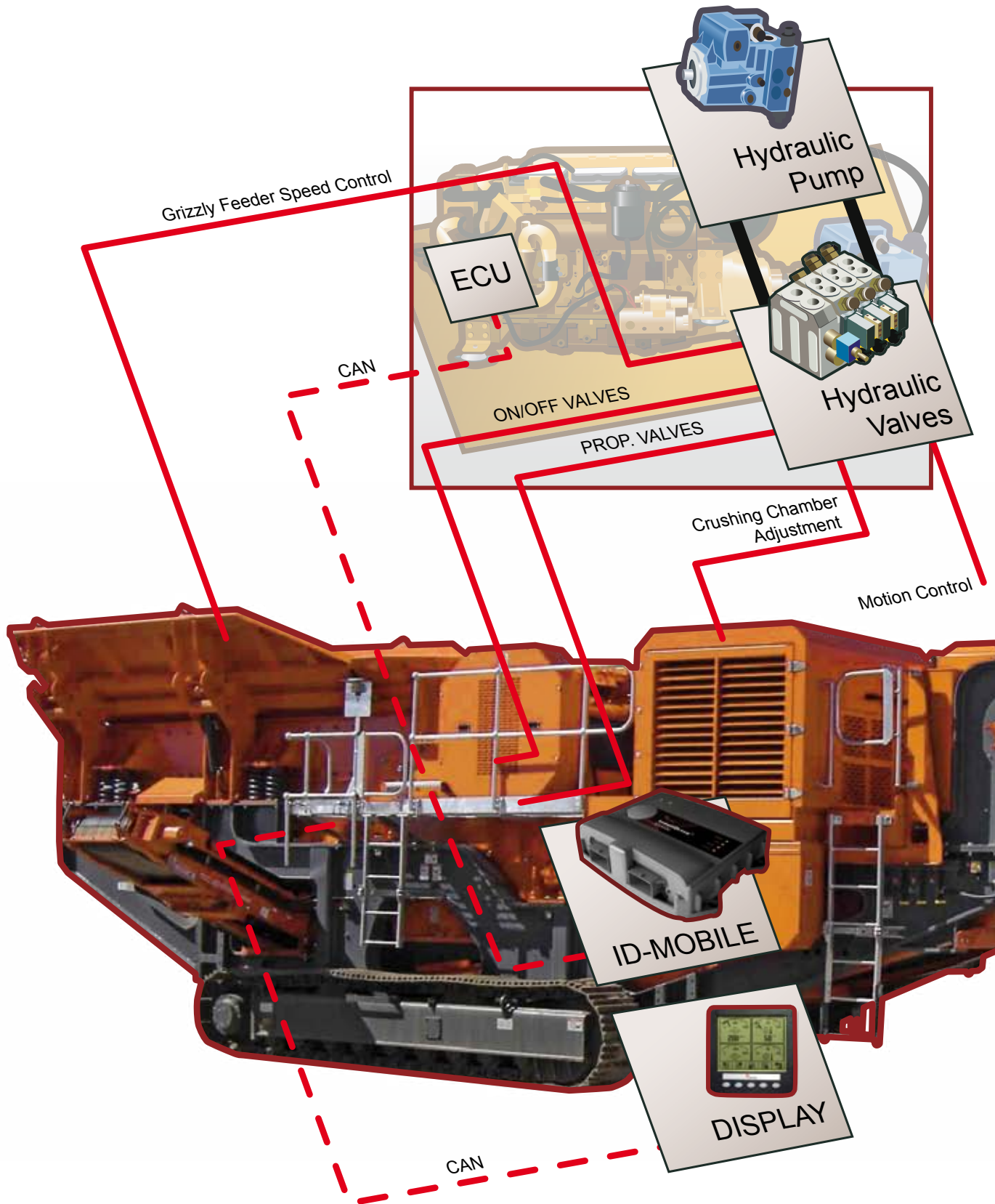
J1939

RPM

EMS

Air

Hydro-Turbo

Air SYST

Brakes

Description:

- The shunting locomotive re-power application uses an InteliDrive Mobile (ID-Mobile) for the complete control, monitoring and protection of the Volvo D16 engine which drive a Voith Hydro – Turbo gear-box for propulsion via a system of push-rods. It is also used for a number of auxiliary functions which includes the air-system compressor or for the vehicle speed by monitoring the RPM in the Voith Hydro – Turbo.
- Full communication between engine, ID-Mobile and the two InteliVision displays is achieved with J1939 CAN bus – making the system wiring and integration very simple.
- All values, warnings and fault codes from the engine (EMS) are displayed on the two large InteliVision displays, located on both sides of the locomotive cabin.
- Smooth take-off and moving, with wheel-slip limitation, is controlled by Ramp function – made possible with the standard ID-Mobile integrated, free configurable PLC logic.

Scope of supply:

- 1× InteliDrive Mobile
- 2× InteliVision

Crusher

Grizzly Feeder Speed Control

Hydraulic Pump

ECU

CAN

Hydraulic Valves

ON/OFF VALVES

PROP. VALVES

Crushing Chamber Adjustment

Motion Control

ID-MOBILE

DISPLAY

CAN

Description:

- Crusher application - where an electronic engine drives a hydraulic pump. The InteliDrive Mobile (ID-Mobile) controller oversees the complete control, monitoring and protection of the engine and all driven machinery. The continuous speed control of a grizzly feeder together with the adjustment of the crushing chamber prevents the crusher from blockages and reduces wear on critical components.
- Communication between engine, InteliDrive Mobile and a display is via CAN bus line. This makes the system wiring and integration very simple.
- Visualization of the most important parameters of the machine as well as selection of the operational mode of the machine is done by a display located near the InteliDrive Mobile controller.
- Control of machine operation is realized by standard integrated, free configurable PLC logic.

Scope of supply:

- 1× InteliDrive Mobile
- 1× Monochrome or colour display

Satisfied Customers Worldwide

USA
Boss Industries

"ComAp's compressor and engine control panel solution optimizes natural gas production on Boss's booster units by providing accurate process control using digital pressure transducers.
Our customers are very happy with its event history capabilities as well as its compressor and engine protective features. We also value the fact that the ComAp ID-DCU panel is fully compatible with future electronic emission certified engines and control capabilities.
BOSS Industries has standardized on the ComAp panel for our gas well booster compressor units."

Ed Ketcham
VP Sales
www.bossair.com

Canada
Simson-Maxwell

"When I first saw InteliVision, I immediately recognized its potential for our power generation systems. The large easy to read color display and customer-friendly interactivity is precisely what our customers have been looking for. We have already installed systems with InteliVision and received very positive feedback from our customers on the units performance."

Santokh Sahota
Engineering Manager
www.simson-maxwell.com
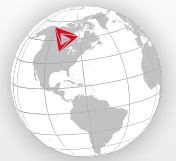
Netherlands
Sandfirden Technics

"All our generator sets and propulsion engines are equipped with a ComAp engine controller, ID-DCU Marine. They are approved by all major Ship Classification Companies. The units fulfill our high quality standards, have many applications and are widely used. Remote monitoring is one of them, which Sandfirden Technics is using in some cases."

Harry Jasper
Service Department
www.sandfirden.nl

Slovakia
ELTECO

"We admire ComAp products because of their innovative features. These include forward looking technological development of monitoring; the ability to solve non-standard customers' requirements and the huge spectrum of opportunities for running of power supplies."

Peter Šiška
Chief of Application and costing estimation department
www.elteco.sk

About ComAp

ComAp

ComAp is a dynamic international company with a solid reputation for delivering innovative electronic solutions to the power generation, industrial engine and equipment markets. By providing customers with state-of-the-art products, ComAp has built a name for delivering excellent reliability and good value.

Excellent and reliable product solutions

ComAp specializes in creating electronic control and management solutions for use in the power generation industries and drive power markets. Our portfolio of products, software and accessories is designed to support emergency power, standby power generation and engine driven applications all over the world. We also work closely with our customers to develop unique customized and turn key solutions for ordinary and extraordinary applications delivering high standards of excellence on every project.


ComAp products represent some of the most reliable solutions on the market today. Every component and product undergoes the most rigorous standards during manufacture, with every stage being undertaken in accordance with international ISO 9001 certification. Our products are backed with the approvals from major Marine Certification Societies. Accreditation at the highest-level breeds confidence, and every ComAp product is supplied with an appropriate warranty and after-sales support for complete peace of mind.

Professional partnerships

ComAp products are directly available in more than 60 countries, spanning almost every continent in the world. Through our professional and highly dedicated global distributor network we can satisfy customers' needs, however challenging.

Each ComAp distributor is carefully selected for their professionalism, product expertise and recognized quality standards and accreditation, and as such can advise customers on any matter relating to ComAp products and their applications.
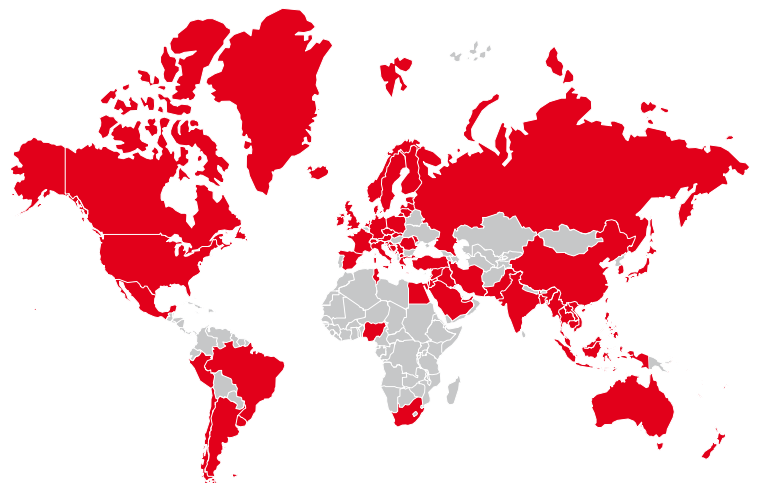
People make the difference

ComAp's key strengths are flexibility, experience, knowledge and enthusiasm. This blend of values defines our personality and gives you the assurance of a truly honest and positive relationship. By supporting our people, investing in their development and encouraging creativity, our teams work hard to find new opportunities, technologies and solutions that enable us to successfully help our customers solve their problems effectively.

At ComAp, we believe passionately in the importance of continuously developing new technology along with forward thinking software and hardware to maintain the enviable position as worldwide leader in communication and control for power generation and drive power applications.

At the heart of this process is a strong desire to exceed our customers' expectations by finding outstanding solutions for them and drawing upon the company's most valuable asset – people. Over 80 % of ComAp employees are graduates with specialized electronic and programming knowledge appropriate to the innovative development of market-orientated engine management systems. This unique know-how is matched by ComAp's significant investment at every stage of the research and development process, resulting in the creation of leading edge modern development facilities. ComAp consistently set high standards, reflected in our third place in the 'Best Employers Study in the Czech Republic' (conducted by Hewitt Associates) in consecutive years (2006 and 2007).

ComAp Systems

ComAp's expertise extends beyond innovative controllers to include a range of subsidiary businesses specializing in related services including bi-fuel conversions, power energy systems solutions and electronic component distribution.

These subsidiaries are located in key strategic regions around the world ensuring our customers benefit from local capability coupled with global reach. Most of them are named ComAp Systems and more information is available on each business at **www.comapsystems.com**.

Key Milestones

1991
Establishment of ComAp.

1993
Successful commissioning of four Gen-set Control Systems made by ComAp on Mediterranean islands.

1994
MX controller, the second generation of ComAp's gen-set control systems, was launched.

1996
PX, the revolutionary gen-set controller with configurable input and outputs, was developed.

1999
The strategic co-operation with HuegliTech Company significantly increased our distribution network.

2000
InteliGen, the first member of the Inteli family and flagship of our gen-set control systems, was released.

2001
ComAp Ltd. – 100 % UK based ComAp subsidiary was established close to Bristol.

2002
InteliSys, our top end product dedicated to CHP and large engine control applications, was released. New mid-range product InteliLite was launched for AMF and MRS applications.

2004
InteliDrive controller for non gen-set, engine driven applications was released.

2006
ComAp LLC – ComAp subsidiary to promote products in the USA and Canada.

2007
InteliVision – the first color display unit in power generation field.

2008
InteliCompact – controller for simple paralleling gensets.

ComAp

We are looking
forward to your visit.

Manufacturer

ComAp, spol. s r. o.

Kundratka 2359/17 • 180 00 Praha 8 • Czech Republic
Phone: + 420 246 012 111 • Fax: + 420 266 316 647
info@comap.cz • www.comap.cz

Local Distributor / Partner

HUEGLI TECH AG (LTD)
The Engine & Genset Control Company

Murgenthalstr. 30
4900 Langenthal / Switzerland
Phone: +41 (0)62 916 50 30
Fax +41 (0)62 916 50 35
e-mail: sales@huegli-tech.com
www.huegli-tech.com