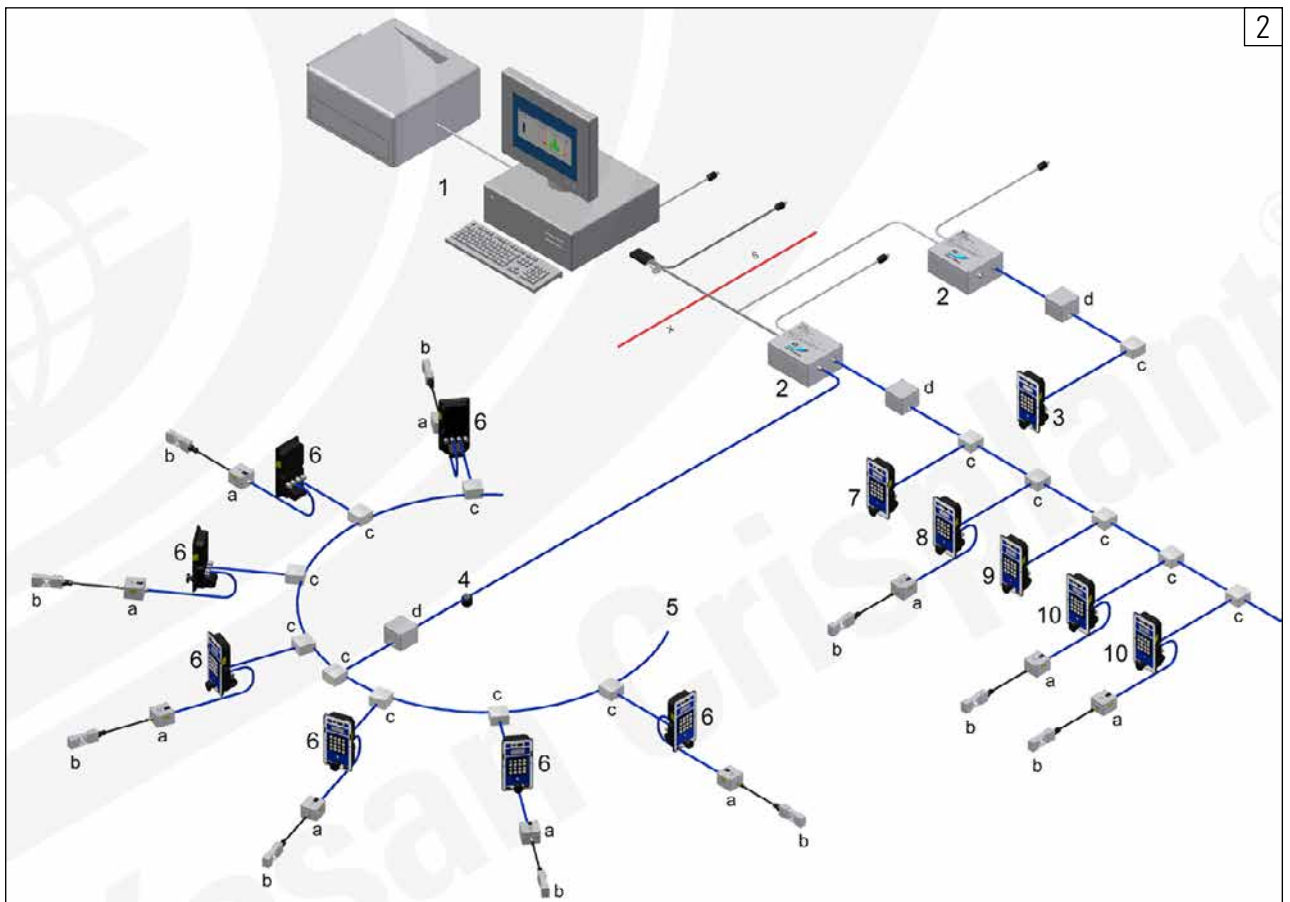


Kosan Crisplant's CUC power and data network is designed for intrinsically safe power supply to CUC controlled machines and for data communication between CUC controlled machines.

- 100% intrinsically safe network approved for hazardous area
- Network communication between machines without PC intervention
- Total protection and isolation of intrinsically safe network via CPI-Ex power supply
- High safety thanks to intrinsically safe network, all cables can be broken without any risk



Example of CUC configuration



- 1 PC system (hardware and software)
- 2 Ex-proof CPI-Ex power supply
- 3 HMI/CUC controller for palletizer
- 4 Slip ring
- 5 Carrousel filling system
- 6 HMI/CUC controller for UFM filling machine installed on filling carrousel

- 7 HMI/CUC controller for introduction at filling carrousel
- 8 HMI/CUC controller for ejection at filling carrousel and for ECS check scale
- 9 HMI/CUC controller for leak detector

- 10 HMI/CUC controller for stationary UFM filling machine
- a Load cell module
- b Load cell
- c T-connector
- d Connection box
- S Non-hazardous area
- X Hazardous area



Kosan Crisplant's HMI/CUC controller

Your benefits

- Low installations costs
- Simple cables and connections
- Easy cabling - power and data in the same cable
- Every HMI/CUC controller can control any machine in the network
- Software for different machine functions is already installed on HMI/CUC controllers
- Few components to be kept in stock thanks to uniform components
- Built-in transient protection in CPI-Ex power supply with protection against excess voltage
- Variation in input signal to CPI-Ex power supply between 85 and 264 VAC/ 47 and 63 Hz
- Easy expansion of and communication between parallel network

Your possibilities

- CPI-Ex power supply approved for installation in hazardous area
- Parallel use of several CPI-Ex power supplies
- HMI/CUC controllers available with different I/O configurations, up to 16 outputs and 32 inputs
- UPS (Uninterruptible Power Supply) to the PC and the CPI-Ex power supply in order to ensure correct close-down of PC and to secure data of ongoing filling
- Installation of PC in non-hazardous area up to 500 meters from filling hall
- One PC can collect and handle data from up to 10 carousel systems simultaneously

Your safety

- Ex marking according to the ATEX Directive and applicable EN standards: **CE** **Ex** II 2G Ex h IIB T3 Gb
- All equipment and machines in the network are intended for operation in hazardous areas classified as Zone 1 or Zone 2 according to EN/IEC 60079-10-1
- All equipment and machines in the network are designed and validated in accordance with a certified ISO:9001 quality management system; furthermore, they are designed according to all relevant requirements set out in applicable EU Directives



Kosan Crisplant's CPI-Ex for supply of power and data to intrinsically safe network



Complete PC system including standard software and Kosan Crisplant software for collection and handling of data