

Communication & Networking



www.IDEC.com/communication



Barriers

OI Touchscreens

PLCs

Automation Software

Power Supplies

Sensors

Communication



Barriers



OI Touchscreens

PLCs

Automation Software

Power Supplies

Sensors

Link to the world and reduce wiring at the same time!

SwitchNet Control Units directly connect to an AS-Interface network

Panels can be built with substantially less wiring at a lower total cost.

- Signals and power are carried through two wires.
- A maximum of 62 switches and pilot lights can be connected. The wire length can be extended to 300m by using two repeaters.
- Spring clamp terminals save wiring time.

Each control switch or pilot light contains a communication chip (AS-Interface Ver. 2.1).



Contact IDEC for more information.

Pilot lights & Illuminated Pushbuttons Brightness Control

Illumination can be controlled at four levels according to a command from the AS-Interface master. Dynamic displays and energy savings are possible.



L6 Pilot Lights See Switch & Pilot Light section.

217

OI Touchscreens

PLCs

Automation Software

Power Supplies

Sensors

Communication

Barriers

Easy & Flexible



OI Touchscreens

PLCs

Automation Software

Power Supplies

Sensors

Communication

Barriers

Space & Wire Savings



Cost Savings



Wiring Comparison Conventional Wiring



Cost Comparison Conventional Wiring

100%

46%

AS-Interface & SwitchNet Wiring

62%

Labor cost
Material cost

Conventional Wiring

When using conventional wiring that involves a PLC and terminal blocks, the inside of the control panel is filled with wires for switches, pilot lights and other devices. Approximately half of the total panel cost is attributable to labor costs for wiring.

AS-Interface & SwitchNet Wiring

All SwitchNet units are connected to the AS-Interface master module using 2-wire cables. Wiring time is reduced to approximately 1/4 of the time needed for the conventional method and the total cost can be reduced up to 40%. In addition, maintenance is much easier.



Inside & Outside-Panel Wiring Example: Cost Savings Approximately 25%

Wiring Comparison



Cost Comparison

Conventional Wiring

AS-Interface & SwitchNet Wiring



Conventional Wiring

A large amount of space and cost is required by wiring to and inside junction boxes.

AS-Interface & SwitchNet Wiring

SwitchNet wiring reduces costs for inside-panel wiring resulting in a total cost reduction of approximately 25%.

Comparisons were made using IDEC products.
 Cost comparison is based on control panel configuration using 60 buttons and lights.

OI Touchscreens

PLCs



Communication

