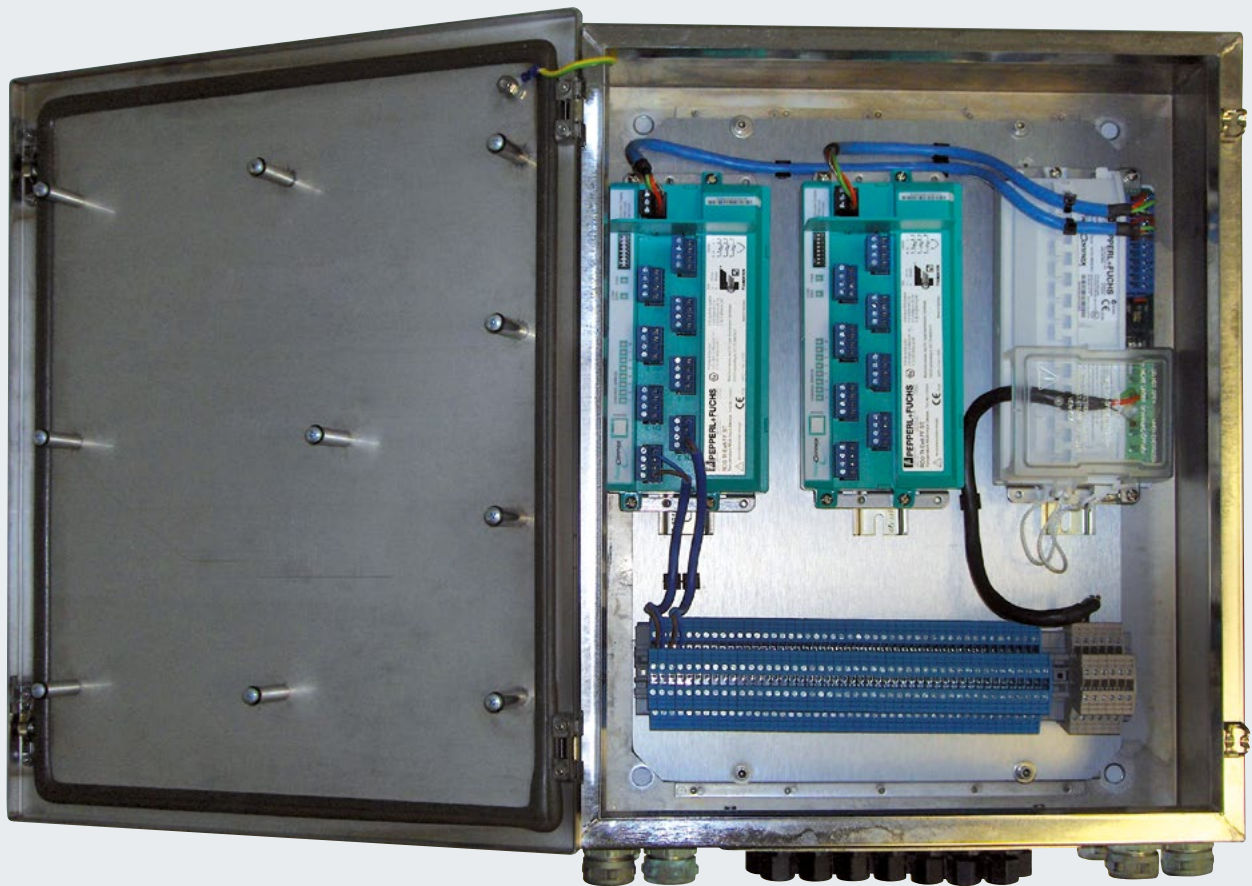


Installation-Ready Solution Replaces LEPIU Systems

Simple and Efficient: FieldConnex®
Temperature Multi-Input

At a Glance

- Tried-and-true solution
- Turnkey solution that is easy to install and implement
- Tested with process control system thanks to close collaboration with supplier Honeywell



Modernization simplified: FieldConnex® Multi-Inputs and FieldBarrier delivered. Ready for installation and intrinsic safety included.

The Application

Low-energy process interface units (LEPIU) are multiplexer systems connecting temperature measurements to the DCS. They were developed in the late 1980s and the components installed in them are now often hard to find and expensive to replace. These temperature multiplexers were also connected to Honeywell TDC 2000 and TDC 3000 process control systems, which are affected in the same way. Nevertheless, these systems now need to be gradually replaced due to their age, which is why Pepperl+Fuchs is offering users a preinstalled fieldbus solution as a simple and cost-effective replacement for these LEPIU systems.

The Goal

The obsolete LEPIUs should be replaced with a simple preinstalled fieldbus solution from Pepperl+Fuchs involving no additional work.

The Solution

Pepperl+Fuchs can provide a junction box or an installation plate that fits into the existing junction box. Junction boxes or plates are equipped with a FieldBarrier for the fieldbus connection, as well as two temperature multiplexers. All components are prewired. The junction box comes with a manufacturer's declaration or a certificate as a unit for operation in Zone 1 (the sensors can be installed in Zone 0). This eliminates the need for the heat balance calculations that are required to retain the old housing. The junction box has been the preferred option among our customers.

This solution is easy to connect to existing fieldbus segments. Up to four of these boxes can be installed per trunk, allowing up to 256 temperature signals per I/O card or four segments. The update rate in this case is a maximum of four seconds.

The Benefits

The new solution from Pepperl+Fuchs is easy to install, because it is almost identical in size to the old LEPIU system. The old housing and the cable to the temperature probes can be retained if required for extra efficiency. The new solution can be integrated into the control technology with little effort. Integration and configuration are easily completed via DD and DTM.

Special Features

Pepperl+Fuchs has been manufacturing all of the products installed in this prewired solution for over ten years, making it very much a tried-and-true solution.

