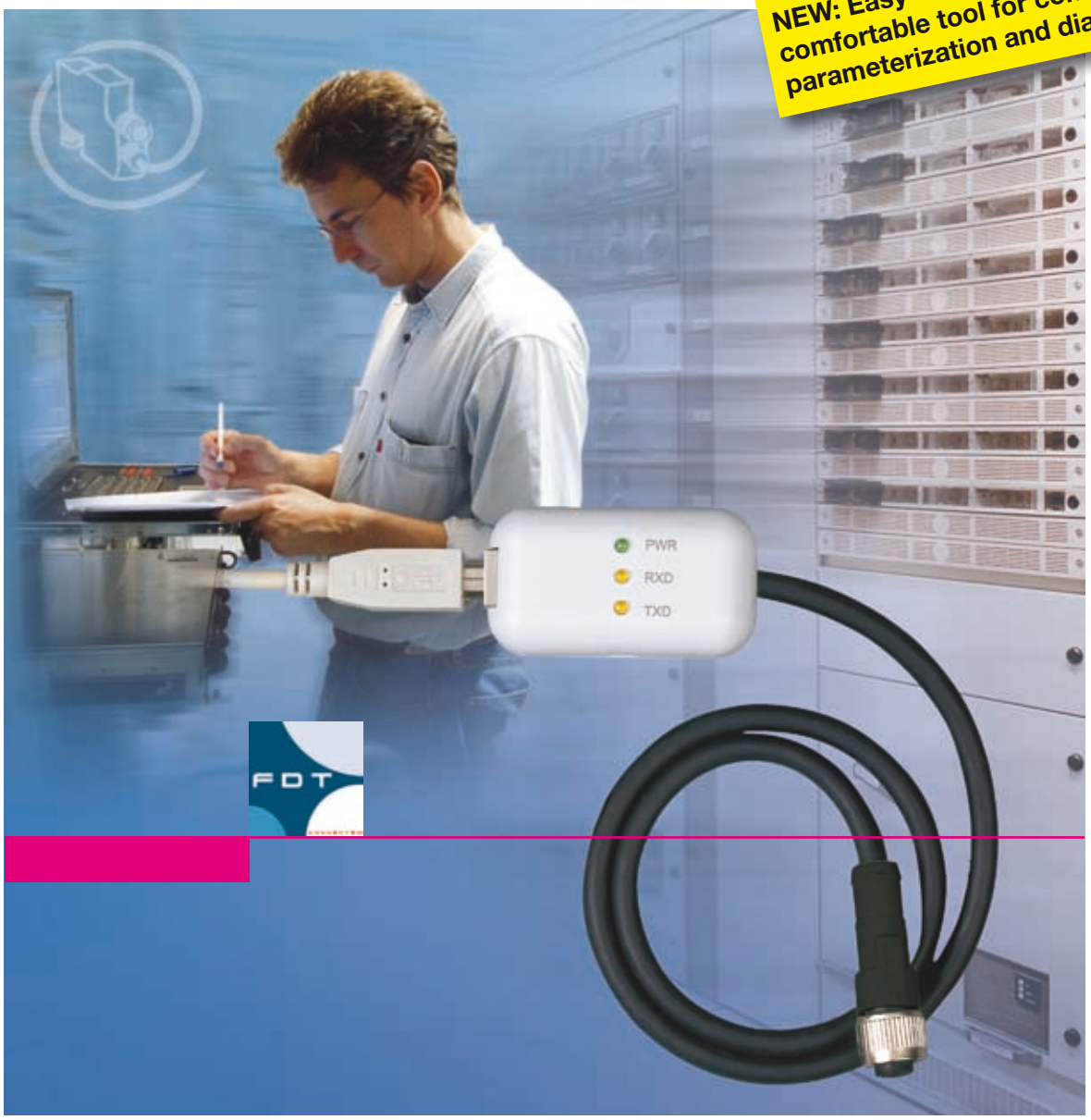
Cost reduction due to higher comfort

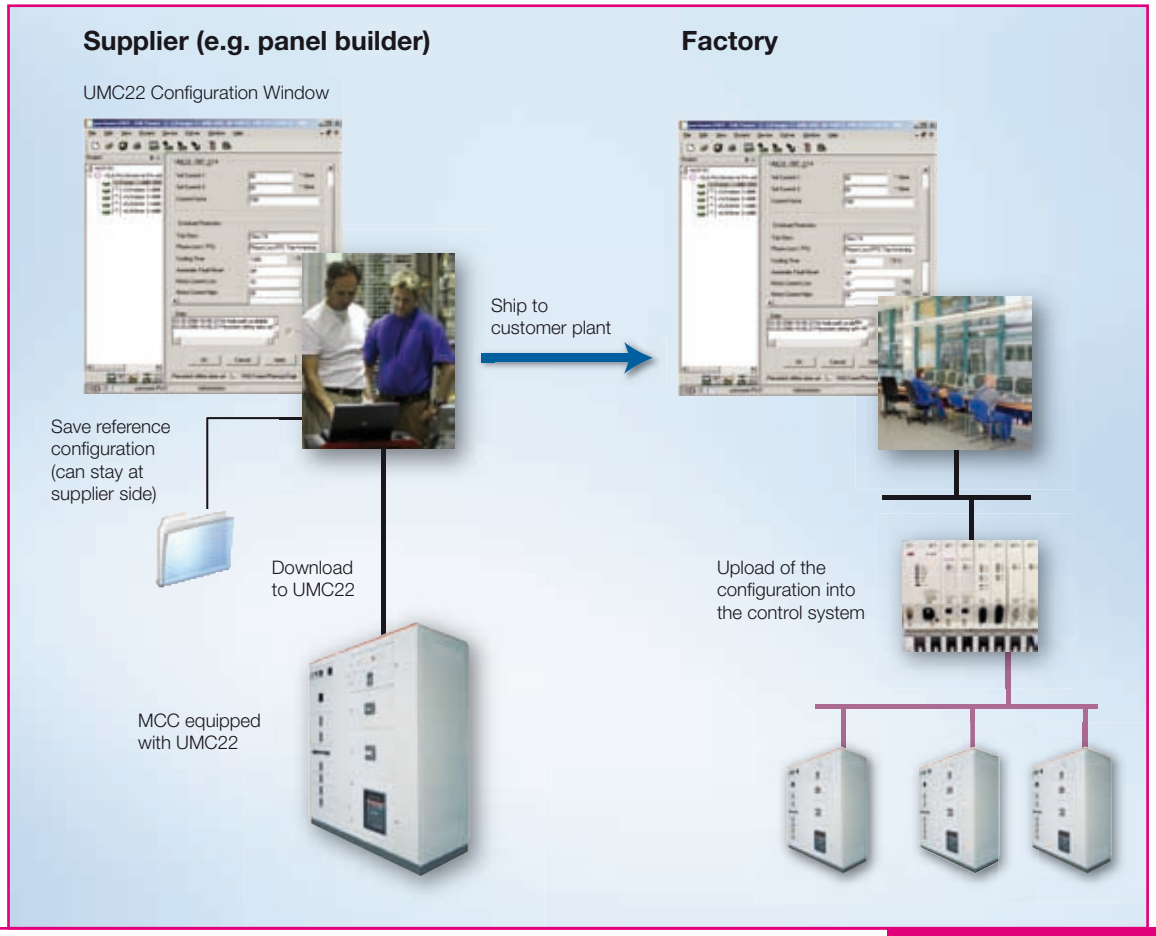
Service tool for FBP field devices

NEW: Easy-to-use and comfortable tool for configuration, parameterization and diagnosis



Configuring, parameterizing, diagnosing …

… and this with an easy-to-use and comfortable service tool that helps everyone, from the enclosure manufacturer up to the system operator. It significantly reduces costs for the field installation and during running operation. ABB now offers this tool for the Universal Motor Controller UMC22-FBP on basis of the FDT/DTM technology.



The FBP service tool simplifies all

Already when configuring a simple motor output the enclosure manufacturer profits from the FBP service tool. It can be used for parameterization and diagnosis either directly at the device or at a central place via the PROFIBUS DP. For future applications, the project data can be stored and archived.

During integration and commissioning of Motor Control Centers at the system's place of installation, the FBP service tool ensures the necessary flexibility due to the implemented open, manufacturer-independent FDT/DTM standard. This allows the easy integration of the UMC22-FBPs into different automation systems. Now, all device parameters of the UMC22-FBPs can be uploaded to the higher level systems up to the host system. The user can access the device parameters at any time during operation and service.

Due to the display of all operation, service and diagnosis data, the user gets conclusive information that helps to avoid malfunctions or to quickly find and remove them in case of an error. Additional systems downtimes are avoided due to the allowed online parameterization also during running operation.

FDT/DTM technology as a basis

As a pioneer company ABB also plays a leadership role in the FDT (Field Device Tool) technology. This technology standardizes the communication interface between field devices and systems so that devices such as the UMC22-FBP can be used independent from the communication protocol, the software environment and the host system.

Today, the FDT/DTM technology is an approved standard that simplifies a lot. Everything is concentrated on the application: during configuration, commissioning and service. And by means of the FBP service tool, which is based on the FDT/DTM technology, everything becomes significantly more comfortable. All device-specific data, functions and operation rules of the UMC22-FBP are clearly shown on the Windows user interface and available for parameterization and diagnosis.

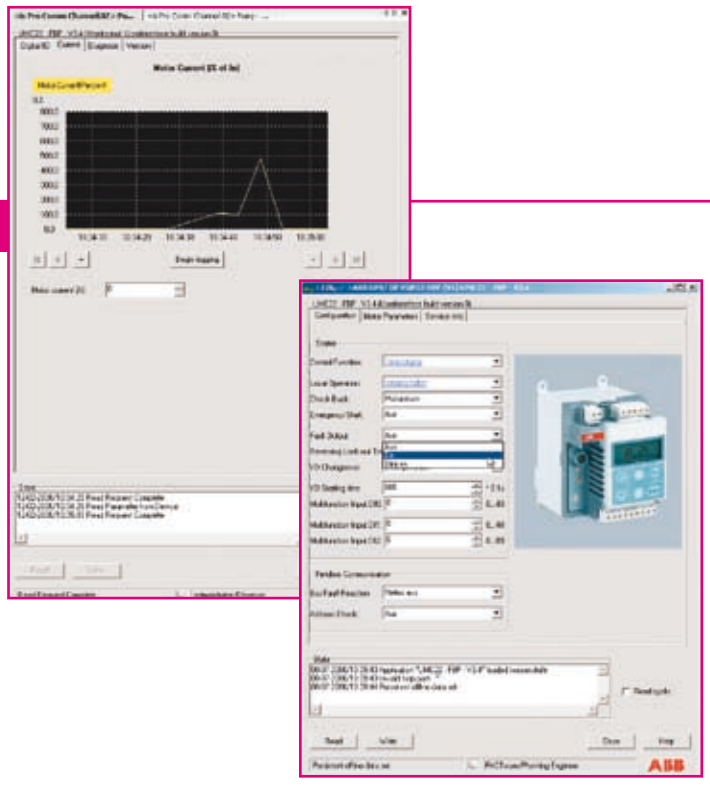
More and more host systems and end users support the FDT/DTM technology. This means, the UMC22 device driver can also be used directly in the host system where it provides exactly the same possibilities as when used in the service tool. The configuration data of pre-configured motor outputs can be easily loaded into the system and centrally stored there. Due to the availability of signal definitions (names, types, etc.) in the device driver, the configuration of the PROFIBUS master becomes significantly simpler.

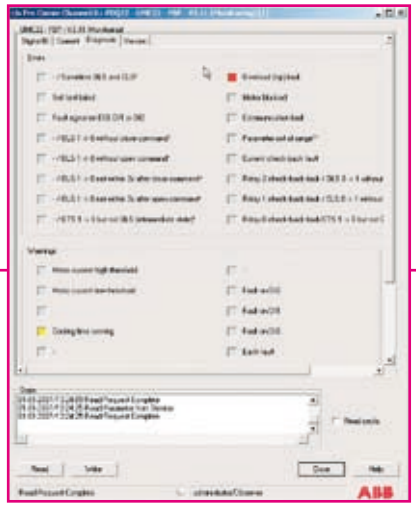
If there are according device drivers (DTMs) available for other devices at the same PROFIBUS line, these can also be used, of course, in the FBP service tool.

And, of course, this has a positive effect on the costs because the potential is clearly visible:

- less training efforts
- faster and easier handling
- open and user-oriented solutions
- safe and long-term investments

The FBP service tool on FDT/DTM basis, a clear advantage

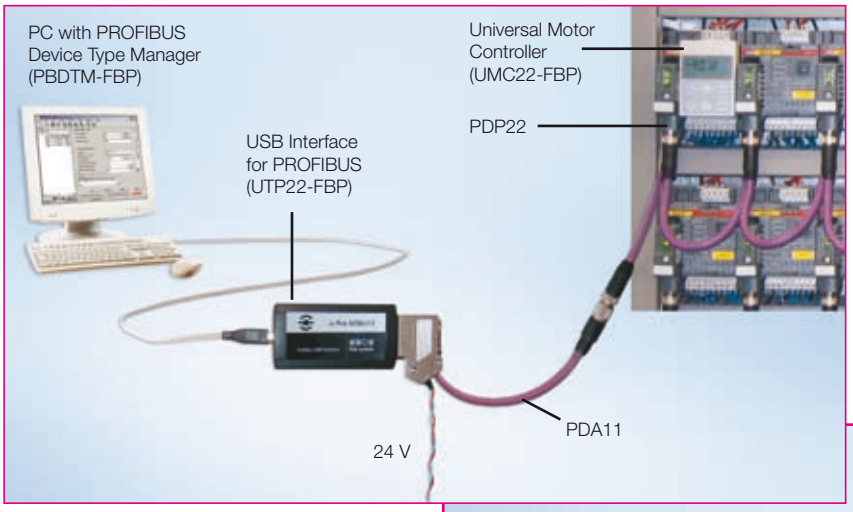




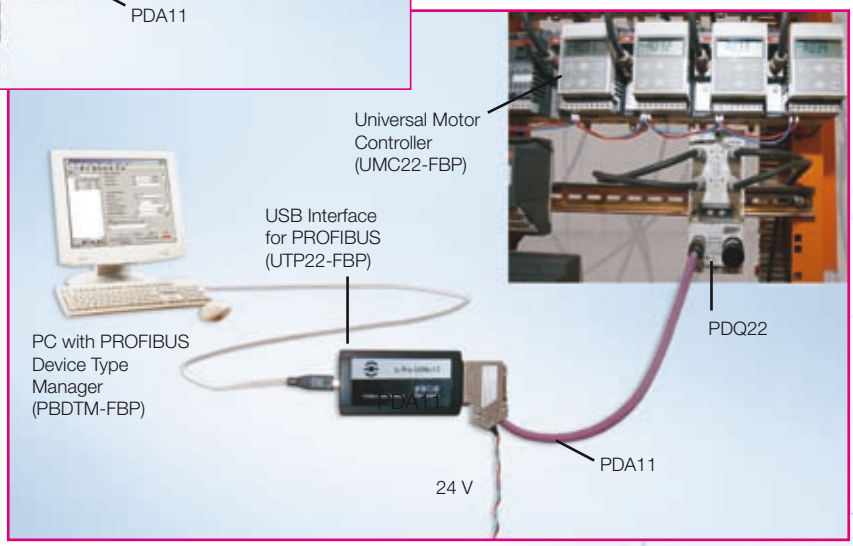
The following information is clearly shown:

- Motor protection and control function parameters
- Configuration of inputs and outputs
- Service data such as motor operation hours
- Telegrams received from / sent to the higher level control
- Trend display of the motor current with the possibility to save the data to a MS Excel file
- Occurred warnings and error messages
- Status of inputs and outputs

Fast and easy connection



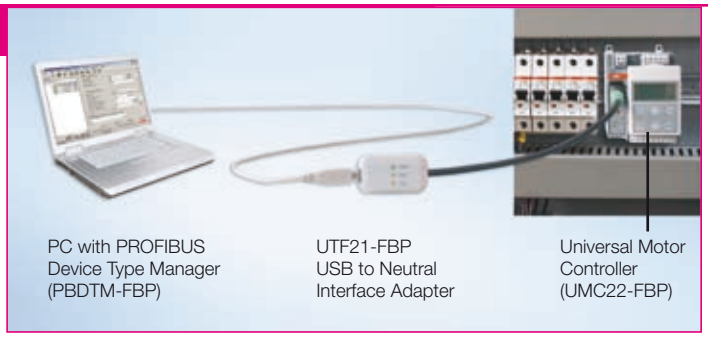
Connection to PDP22-FBP



Connection to PDQ22-FBP

Bus connection

During and after commissioning, during tests, maintenance and diagnosis, the device is connected to the PDQ22 or PDP22 via the bus. In this case, all UMC-22FBPs, which are connected to a PDQ22, can be accessed individually.



Connection using the UTF21-FBP

Direct connection to field device

The direct connection to the field device is particularly of advantage for devices that are not connected to the bus.

Technical Data

Service tool variant 1:

Comfortable device parameterization and diagnosis via PROFIBUS DP. This option is recommended if many devices are used.

The following components are required:

Type	Designation	Order No.
UTP22-FBP	USB interface for PROFIBUS network	1SAJ 924 013 R0001
PBDTM-FBP	PDP22/PDQ22 Device Type Manager (DTM) including FDT/DTM frame application	1SAJ 924 012 R0001
PDA11-FBP.050	PROFIBUS DP adapter cable Dsub9-M12 (optional if no Dsub9 connection available, for example at master or repeater)	1SAJ 924 009 R0005

Service tool variant 2:

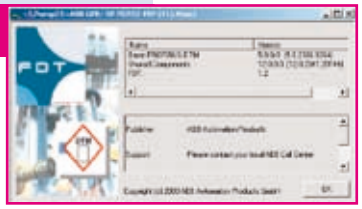
A single device can be directly (without field bus plug) parameterized and diagnosed. This option is recommended for devices that are operated without bus connection or if the devices are connected to DeviceNet, Modbus or AS interface.

The following components are required:

Type	Designation	Order No.
UTF21-FBP.0	USB to FBP interface cable	1SAJ 929 400 R0001
PBDTM-FBP	PDP22/PDQ22 Device Type Manger (DTM) including FDT/DTM frame application	1SAJ 924 012 R0001

FDT provides an answer to the long-standing problem of how to connect multiple protocols into a single, common easy to use platform, leveraging the knowledge of device suppliers that minimizes the cost and risk to the end user. FDT provides true open connectivity of field device information to applications in a common interface, giving Microsoft Windows users universal interoperability regardless of industry, device supplier and device type.

Independent valuation of the ARC Advisory Group



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