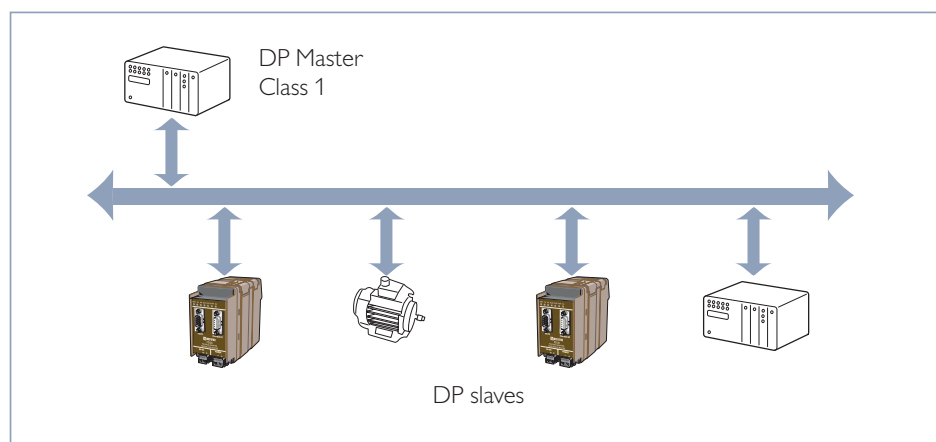


## PROFIBUS DP

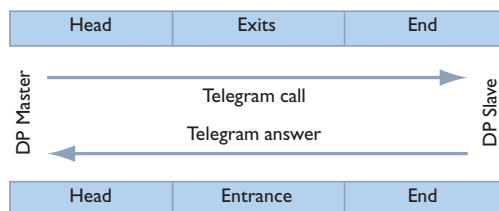
Represents basic, fast, cyclic and deterministic process data exchange between a bus master and its assigned slaves. Communication between the master and slave is regulated and controlled by the Master. A master is normally the central programmable control system such as a PLC or industrial PC.

### Master and slave



A slave is a field device (I/O terminal, drive equipment, HMI-station, valve, transmitter, analysis instrument or similar) that reads information about the process and/or uses output information to control the process. There are also units that only process input or output information without effecting the process. From a communication standpoint slaves are passive participants that only respond to a direct enquiry.

### Cyclic data communication between DPM1 and the slaves



Data communication between DPM1 (DP Master class 1) and its assigned slaves is taken care of automatically, according to a defined repeated sequence. The user performs slave assignment when configuring the bus system at the same time as determining which slaves are to be included /excluded in the cyclic communication.