



SNMP INTERFACE

The Simple Network Management Protocol (SNMP) is a network protocol used by network management systems (NMS) to centrally monitor network components (e.g. routers). The INTRON-X / INTRON-D plus system from INDUSTRONIC supports SNMPv2c and SNMPv3 allowing for easy integration into existing network management systems.



- Support of SNMPv2 and SNMPv3 to connect INTRON-X / INTRON-D plus systems to network management systems
- INDUSTRONIC-specific MIB to manage INTRON-X / INTRON-D plus data
- Retrieving detailed information on the hardware used and connected terminal devices
- Retrieving states and information on configured event groups (e.g. fault message states)
- SNMP traps in case of status changes in the INTRON-X / INTRON-D plus system

RETRIEVING DATA WITH SNMP

Retrieving general system information such as uptime, location, and system type via MIB-2 (*iso.org.dod.internet.mgmt.MIB-2*)

System-specific information

Retrieving detailed information about the equipment installed in the system

Retrieving important configuration parameters

Retrieving the current connection status within a network of systems

PROTOCOL PROPERTIES

SNMPv2 or SNMPv3 (configurable)

UDP over IPv4

UDP port 161 for sending and receiving SNMP requests

UDP port 162 for sending SNMP traps

MIB is based on SNMPv2-SMI

Support of UTF-8 character encoding

SUPPORTED SNMPv3 CONFIGURATION OPTIONS

Security levels	noAuthNoPriv, authNoPriv, authPriv
Digest authentication	via MD5 or SHA-1
Supported encryption protocol	CBC/DES, CFB/AES-128
Notification format	SNMPv3 TRAP

Note: For authentication/privacy features an individual passphrase has to be configured. For SNMPv3 TRAPs additionally an individual engine ID has to be configured.



APPLICATION

Network Management System

| SNMP Request |
| SNMP Response |
| SNMP Traps |
| INTRON-D |
| INTR

INTERFACE

RJ45 Ethernet interface on the XCO/DXC controller

ORDER DATA

Description	Type Number
ACT-SNMP Interface Activation of one SNMP interface within the INTRON-X / INTRON-D plus system	101-400-101

In a system, each XCO/DXC controller is considered as a single SNMP network element so that each controller can separately be reached and monitored by the network management system. To protect the system configuration of the INDUSTRONIC system and to support IT security measures, the SNMP interface is designed as read-only.

To retrieve system information, the MIB-2 is used in part as well as the proprietary INDUSTRONIC-specific Management Information Base (MIB).

Additionally, the network management system can immediately be notified about status changes via SNMP traps. This ensures that system errors can directly be displayed. You can also configure several trap recipients so that traps can be sent to several network management systems (currently only one trap recipient configurable when using SNMPv3).

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