

Course Title	Duration	Content	Learning Objective
INTRON-D <i>plus</i> Basic	3 days	<ul style="list-style-type: none"> ▪ Introduction to the modular design of the hybrid industrial communication system INTRON-D <i>plus</i> ▪ Introduction to the modular system architecture with corresponding components and functions ▪ Digital and IP-based intercom stations and amplifiers ▪ Power supply concept and battery management ▪ Overview on the different application possibilities in the fields of <ul style="list-style-type: none"> ○ Public address ○ Intercom ○ Alarms and evacuation ▪ Interfaces to third-party systems such as <ul style="list-style-type: none"> ○ Fire detection and alarm systems ○ Telephone systems ▪ Basic information on mechanical cabinet design ▪ Using the integrated web interface ▪ System parameterization and first steps in function parameterization with the software Config Manager ▪ Introduction to the accompanying system documentation ▪ Troubleshooting basics 	<ul style="list-style-type: none"> ▪ Basic knowledge on the system and its different types of applications ▪ Gaining competence in handling INDUSTRONIC system components ▪ Easy system expansions ▪ Efficient system troubleshooting ▪ Self-help approach

<p>INTRON-D <i>plus</i> Advanced</p> <p>Requirements: INTRON-D <i>plus</i> Basic training</p>	<p>3 days</p>	<ul style="list-style-type: none"> ▪ Brushing-up knowledge of system basics ▪ Information on design and handling of new components ▪ Enhancing knowledge on programming with the latest Config Manager version ▪ INTRON-D <i>plus</i> redundancy concepts and requirements imposed by standards ▪ IP and network basics for using the INTRON-D <i>plus</i> within a network, ▪ IP-based interface solutions, e.g. SIP, SNMP, Modbus, CANopen ▪ Configuration and commissioning of IP terminal devices, e.g. NCP, 12 AP 701 ▪ Advanced troubleshooting 	<ul style="list-style-type: none"> ▪ Gaining competence in using the configuration software Config Manager ▪ Gaining expertise in handling INDUSTRONIC system components ▪ Knowledge on how to connect IP-based third-party devices ▪ Independent system troubleshooting
<p>INTRON-D <i>plus</i> Project-specific training</p>	<p>3-4 days</p>	<ul style="list-style-type: none"> ▪ Basic training with project- or plant-specific topics 	<ul style="list-style-type: none"> ▪ Gaining competence in using the configuration software Config Manager ▪ Gaining expertise in handling INDUSTRONIC system components ▪ Best practice on how to connect IP-based third-party devices ▪ Project-specific system troubleshooting
<p>INTRON-D <i>plus</i> Training according to EN54-16</p>	<p>2 days</p>	<ul style="list-style-type: none"> ▪ Training for project engineers, installers and operators of voice alarm systems (INTRON-D <i>plus</i> /FA) according to the EN54-16 standard ▪ Further details on request 	<ul style="list-style-type: none"> ▪ Independent planning and operating of a voice alarm system (INTRON-D <i>plus</i> /FA) according to the EN54-16 standard
<p>INTRON-D Basics</p>	<p>3 days</p>	<ul style="list-style-type: none"> ▪ Training on the digital system INTRON-D ▪ Further details on request 	<ul style="list-style-type: none"> ▪ Gaining competence in handling INDUSTRONIC system components ▪ Efficient system troubleshooting

Training courses take place in our modern and well-equipped training center. Our competent trainers also offer training on site.

For dates and details, please call the INDUSTRONIC training hotline or contact your Area Sales Manager.

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