



**LANDIS+GYR TRAINING:  
INSIGHTS INTO METERING TECHNOLOGY**

## EMEA TRAINING CENTER

Whether you are looking for an introduction to metering technology or need to get up to speed on a specific product, we offer you a comprehensive curriculum to help you reach your goals.

Our training courses may help you master metering technology skills to a level of being able to understand, deploy, maintain, and secure metering infrastructures. Once you have begun to understand the basics, you can focus on specialized training on our products and solutions.

### General Information

#### Standard Training Modules

Landis+Gyr provides training modules for all levels of knowledge and experience. Whether a new employee needs to learn the basics of metering technology, an experienced support technician has to become acquainted with one of our new products, or an expert project leader wants to acquire in-depth knowledge of a full end-to-end solution, Landis+Gyr assists customers to achieve what they require.

#### Customized Training Sessions

Customized training sessions can be set up to effectively address the specific training needs of our customers. The training program is created based on specific needs and dedicated to individual customers.

See our Customized Training Sessions at <https://www.landisgyr.eu/devices/training> for details.

For more detailed information, please contact your local sales representative or visit our Training Services Centre in Prague.

## TRAINING CENTER PORTFOLIO OVERVIEW

	Page	Available Languages*	
		EN	DE
Device Training			
Industrial Commercial Grid	4	●	●
Residential	6	●	●
Load Management	7	●	●
Data Concentrators	8	●	●
Technology Training	9	●	●
Use Case Training	10	●	●
Software Training			
Gridstream HES	11	●	●
Gridstream AIM	11	●	●
Gridstream Converge	12	●	
E-Learning	13		
Contacts	14		

\* Documents and Trainings in French and Italian exceptionally available upon request

## INDUSTRIAL COMMERCIAL GRID

### E850

A high precision grid meter for conventional VT/CT

### E860

A new generation of high precision grid meters

### E880

A high precision grid meter for non-conventional VT/ CT (NCIT) and power substations with sampled values according to the IEC 61850-9-2 standard



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**E850/E860/E880**

**Basics**

**Parametrisation**

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### E650

A proven meter for commercial, industrial and smart grid applications

### S650

An innovative smart grid solution for transformer station monitoring and street light control

### E660

New generation of industrial meters with enhanced power quality and safety



## E65C/E66C

Communication module for E650/S650/E850 and E660/E860

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E650/S650/E660  
E65C/E66C

Basics  
Communication

Parametrisation

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## E570

An advanced current transformer connected meter designed for high current/low voltage consumers with AMI core functionalities and IDIS compliant

The meter features built-in support for multi-energy, can be equipped with exchangeable communication modules and has G3-PLC communication capability



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E570

Basics

Parametrisation

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## RESIDENTIAL

### E450

An advanced residential meter which incorporates core functionalities, such as powerful e-metering, multi-energy data collection, remote and local communication and end user interaction

E450 has integrated power line communication (PLC) either with IDIS PLAN+ or IDIS G3-PLC

### E350

A modular residential meter with functionality for recording, billing, and network monitoring



### E35C

A family of communication modules with a wide range of communication technologies such as PLC, Ethernet, GPRS/UMTS

### E360

A revolutionary approach to smart metering technology, the modular design and communication architecture combining LTE cellular p2p, RF Mesh and G3-PLC technologies make the new Landis+Gyr E360 meter a future-proof solution ready for the IoT world. Utilities no longer need to choose and lock to a single communication media and fixed functionality set, but can instead adapt the device to meet the requirements of the future

The flexibility, modular design and long asset lifetime of the E360 deliver utilities exceptional value for their investment



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**E350+E35C/E450**

Basics

Parametrisation

**E360**

Basics

Parametrisation

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## LOAD MANAGEMENT

### L540

A G3-PLC load switch for flexibility management applications to optimize energy consumption and utilization of distribution grid infrastructure

The load switch is seamlessly integrated into the Landis+Gyr Gridstream Smart Metering and Grid Management solution



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### E570

Basics

Parametrisation

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## DATA CONCENTRATORS

### DC450

A new generation intelligent data concentrator for large scale meter reading and controlling over power-line communication

### DC250

A data concentrator using G3 power line communication with E450 G3-PLC meters

It independently collects the measurement data of all meters in the PLC network, saves them and sends the data to the HES with UDP/IP protocol over Ethernet or SFP interface



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**DC450**

Basics and Setup

**DC250**

Basics and Setup

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## **DLMS**

DLMS/COSEM is the global standard for smart energy metering, control and management

It specifies an object-oriented data model, an application layer protocol and media-specific communication profiles



## **G3-PLC**

G3-PLC was developed to meet the industry's need for a potentially ubiquitous powerline communications standard that will enable the smart grid vision

G3-PLC facilitates high-speed, highly reliable, long-range communication over the existing powerline grid

With the ability to cross transformers, infrastructure costs are reduced and with the support of IPv6, G3-PLC will support powerline communications into the future



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**DLMS**  
**G3-PLC**

**Basics**

**Basics**

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## USE CASE TRAINING COURSES

### Metering Basics

Training prepared for people with little experience in metering, as an introduction into the world of measurement and data readout

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**Metering Basics**

Electricity, Metering & Portfolio overview

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### Installation Training

Training for technicians and installers at a distribution company, who need to have an overview of their installed meter base and how to use all the functions, eventually clean-up

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**Installation**

Basics, Installation Service and Readout

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### Distribution System Operator Training

Training for main technicians working at a distribution or transmission system operator, who need to operate and parametrize the devices they use. Also used as a support training for new customers

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**Distribution**

Basics, Service, Readout and Parametrization

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### Grid System Operator Training

Training for main technicians working at a distribution or transmission company, who need to operate and parametrize the high precision meters from our portfolio

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**Grid**

Basics, Service, Readout and Parametrization

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## SOFTWARE TRAINING COURSES

### Gridstream HES

Gridstream HES is the communication and data collection layer between the metering data management system and the metering network

Its main purpose is to collect metering data reliably from smart meters and provide it on-time to other systems

Gridstream HES provides on-demand data, event and alarm information for other systems and has monitoring tools to ensure the best possible availability of the meters in the field



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#### HES

System Overview	Basics
Groups Handling	Data Acquisition
Task Management	TOU Definitions
Master Time Setting	Profile Definitions

### Gridstream AIM

A fully integrated end-to-end advanced metering management system (AMM)

AIM stores and prepares metering information for viewing, reporting or use in other applications.

It includes functionalities for efficient smart metering data collection and control as well as for data storage, validation and unification



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#### AIM

System Overview	Modules and Basics
Data Browser	Profile Calculation
Data Validation	Task Manager

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## Gridstream Converge

An advanced end-to-end metering management (AMM) system for industrial, commercial and grid applications

Gridstream Converge is deployed for municipal utilities and as a high-availability, redundant system for very large utilities. It processes electricity, gas, heat and water data

The system's scalability and modularity ensure tailored system configuration



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### Converge

System Overview	Basics and Administration
Data Acquisition	Data Processing
Data Analysis	Consumer Tree
System Administration	Calculations

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## E-LEARNING

### Landis+Gyr Training Academy

Explore our online learning platform that helps you achieve and deepen your knowledge and skills in the smart metering space!

Landis+Gyr Training Academy is our online learning platform with various courses to bring you up to speed on all you need to know about our portfolio. There you will find the resources that can help you advance your know-how.

Use our eLearning platform to:

- Keep up with the latest industry trends and challenges
- Fulfil continuing education requirements
- Understand, deploy, maintain, and secure metering infrastructures
- Learn how to properly install and service Landis+Gyr products



## TRAINING LOCATION PRAGUE

Landis EMEA Training Centre

Plzeňská 5/A | CZ-150 00 Prague 5

Telephone +421 258 267 112

[training@landisgyr.com](mailto:training@landisgyr.com) | [www.landisgyr.eu/training](http://www.landisgyr.eu/training)



## TRAINING LOCATION CHAM

Landis+Gyr AG Classroom

Alte Steinhauserstrasse 18 | CH-6330 Cham

Telephone +41 41 935 6000

[training@landisgyr.com](mailto:training@landisgyr.com) | [www.landisgyr.ch/training](http://www.landisgyr.ch/training)

### Arrival by car

#### Motorway A4 exit Zug/Cham Ost

A. Visitor parking 1–17

B. Parking garage Landis+Gyr

### By public transport

- 1. Railway station Steinhausen Rigiblick**  
S-Bahn 5 from Bhf Zug (Walking 7 min)
- 2. Railway station Cham Alpenblick**  
S-Bahn 1 from Bhf Zug (Walking 11 min)
- 3. Bus stop Gewerbestrasse**  
Bus 7 from Bhf Zug
- 4. Bus stop Chamerried**
- 5. Bus stop Riedstrasse**

