



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

EMEA TRAINING CENTER

Whether you are looking for an introduction to metering technology or you 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 Center in Prague.

TRAINING CENTER PORTFOLIO OVERVIEW

	Page	Languages availability*	
		EN	DE
Devices Training Courses			
Industrial Commercial Grid Meters	4	●	●
Residential Meters: E450, E350 & E35C	6	●	●
Residential Meters: E360	7	**	**
Concentrators: DC450 & DC250	8	●	●
Technology Training Courses	9	●	●
Use Case Training Courses	10	●	●
Software Training Courses			
Gridstream HES	11	●	**
Gridstream AIM	12	●	**
Advance ECONomic	13	●	**
Gridstream Converge	13	●	●
W1000	14	●	**
Advanced Grid Analytics	14	●	**
E-Learning: Training Academy	15		
Contacts	16		

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

** Documents and Trainings in German available soon

INDUSTRIAL COMMERCIAL GRID

E850 Grid Meter

A high precision meter for conventional VT/CT.

E880 Grid Meter

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



E850/E880

Basics and Setup

Parametrization

E570 Commercial Meter

An advanced current transformer connected meter designed for high current/low voltage consumers with AML 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.



E570

Basics and Setup

Parametrization

E650 Industrial and Commercial Meter

A proven meter for commercial, industrial and smart grid applications.

S650 Smart Grid Terminal

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

E65C

Communication module for the E650 and S650.



E650/S650

Basics and Setup

Parametrization

E65C

Communication

E750 Industrial and Commercial Meter

The SyM²-compliant meter based on a multi-modular architecture for commercial & industrial applications.



E750

On Request

RESIDENTIAL

E450 Residential Meter

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 Residential Meter

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.



RESIDENTIAL

E360 Residential Meter

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.



E360

Basics and Setup

Parametrization

E350+E35C/E450

Basics and Setup

Parametrization

CONCENTRATORS

DC450 Concentrator

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



DC450

Basics and Setup

DC250 Concentrator

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.



DC250

Basics and Setup

TECHNOLOGY TRAINING COURSES // SMART METER NETWORKS

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.



DLMS

Introduction

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.

G3-PLC

Introduction

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.

Metering Basics

Electricity, Metering & Portfolio overview

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 cleanup.

Installation

Basics, Service and Readout

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.

Distribution

Basics, Service, Readout and Parametrization

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.

Grid

Basics, Service, Readout and Parametrization

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.



Gridstream HES

Data Acquisition

Deployment

Groups Handling

Unit Changes

Control Jobs

FW Update

Task Managements

TOU Definitions

Master Time Settings

Profile Definitions

Administrator Course
Content

User Management

Password Policy

SOFTWARE TRAINING COURSES

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.

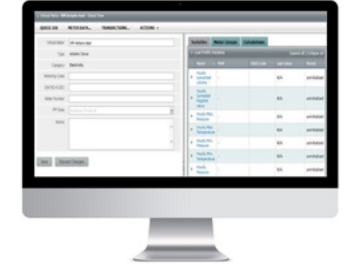


Gridstream AIM	Data Browser	Data File Tool
	Data Validation	Task Manager
	Profile Calculations	Administration
	Tariff Calculations	
Add on Applications	InSight	Field Operation Manager
	Dashboard	AIMIA
Administrator Course Content	Reporting (BI Publisher)	IEC Interface
	Multy Energy	PLC Interface

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.



Gridstream Converge	User	Administrator
User Course Content	Data Acquisition	Consumer Tree
	Data Analysis	Data Processing
		Calculations
Administrator Course Content		System Administrator
		Reporting

Advance ECONomic

An advanced end-to-end metering management (AMM) system for smaller operators who want to capture the benefits of smart metering. It is a cost-efficient system enabling support of basic benefits such as accurate billing based on actual consumption and remote operations.



Advance ECONomic	Data Acquisition and Tools	System Administrator
------------------	----------------------------	----------------------

ADDITIONAL SOFTWARE

W1000

Application developed to offer a powerful graphical tool and useful reports to users.

Users can view their metering data in a variety of different forms including multiple views to sort desired information.



W1000

Operations

Advanced Grid Analytics

Application designed to help solve power quality, grid reliability, revenue protection and other operational challenges by harnessing available data.

This proven solution applies meter and distribution network data to system models so information can be visualized to quickly detect and locate trouble spots or plan for upgrades.



Advanced Grid Analytics

*Coming soon

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
- Fulfill continuing education requirements
- Understand, deploy, maintain, and secure metering infrastructures
- Learn how to properly install and service Landis+Gyr products

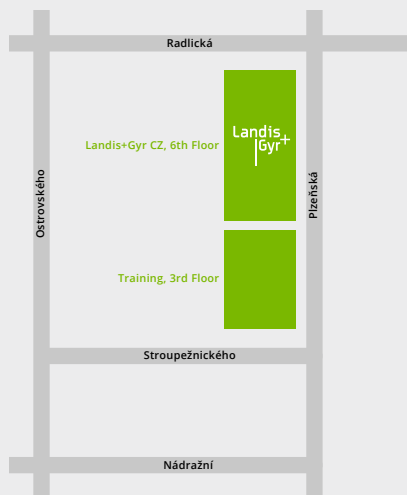


TRAINING LOCATION PRAGUE

Landis EMEA Training Centre
Plzeňská 5/A
CZ-150 00 Prague 5

Phone +421 258 267 112

training@landisgyr.com
www.landisgyr.eu/training



TRAINING LOCATION ZUG

Landis+Gyr AG
Training Room
Theilerstrasse 1
CH-6300 Zug

Phone +41 41 935 6500

training@landisgyr.com
www.landisgyr.ch/training

