

Product	IM [®] Sensorlab	HydriS	Fiberlab	Wireless castemp	E5 line	E4 line	Digilens S	Meltcontrol Steel and Meltcontrol Foundry
The type and format of product data that the product can generate.	The measuring instruments generate and store measurement and operating data temporarily in a local database. Measurement data include: - one or two continuous streams of sample data, depending on the measurement sensor being used, during a measurement - the results of the measurements - the outcome of the measurement: success or failure - the type of measurement (sensor related) - the time of the measurement For more information on which results and types, see the leaflet/manual. Operating data includes: - current data -error information (e.g., device malfunction) - choice and measurement settings -Loggs (troubleshooting) - Device and measurement settings -Loggs (troubleshooting)	The measuring instruments generate and store measurement and operating data temporarily in a local database. Measurement data include: - a continuous stream of sample data (temperature) during a measurement - the results of the measurements - the outcome of the measurement: success or failure - the type of measurement (HydriS or Temperature) - the time of the measurement For more information on which results and types, see the leaflet/manual. Operating data includes: - current data -error information (e.g., device malfunction) - choice and measurement settings -Loggs (troubleshooting) - Device and measurement settings -Loggs (troubleshooting)	The measuring instruments generate and store measurement and operating data temporarily in a local database. Measurement data include: - a continuous stream of sample data (temperature) during a measurement - the results of the measurements - the outcome of the measurement: success or failure - a second continuous stream of sample data (apparent) during a measurement - the lifetime of the measurement Operating data includes: - current data -error information (e.g., device malfunction) - choice and measurement settings -Loggs (troubleshooting) - Device and measurement settings -Loggs (troubleshooting)	These measuring instruments generate measurement. The operating data is stored in Flash memory. Measurement data include: - one or two continuous streams of sample data, depending on the measurement sensor being used, during a measurement - the results of the measurements - the outcome of the measurement: success or failure - the type of measurement (sensor related) - the time of the measurement For more information on which results and types, see the leaflet/manual. Operating data includes: - current data -error information (e.g., device malfunction) - choice and measurement settings -Loggs (troubleshooting) - Device and measurement settings -Loggs (troubleshooting)	These measuring instruments generate measurement. The operating data is stored in Flash memory. Measurement data include: - one or two continuous streams of sample data, depending on the measurement sensor being used, during a measurement - the results of the measurements (temperature) - the outcome of the measurement: success or failure - the type of measurement (sensor related) - the time of the measurement For more information on which results and types, see the leaflet/manual. Operating data includes: - current data -error information (e.g., device malfunction) - choice and measurement settings -Loggs (troubleshooting) - Device and measurement settings -Loggs (troubleshooting)	These measuring instruments generate measurement. The operating data is stored in Flash memory. Measurement data include: - one continuous stream of sample data - the results of the measurements (temperature) - the outcome of the measurement: success or failure - the type of measurement (sensor related) - the time of the measurement Operating data includes: - current data -error information (e.g., device malfunction) - choice and measurement settings -Loggs (troubleshooting) - Device and measurement settings -Loggs (troubleshooting)	This software receives and stores measurement data in a local database. Measurement data include: - one or two continuous streams of sample data, depending on the measurement sensor being used, during a measurement - the results of the measurements - the outcome of the measurement: success or failure - the type of measurement (sensor related) - the time of the measurement This software can generate additional results based on user defined formulas.	
The estimated volume of product data that the product can generate.	The volume of generated data depends on the sampling rate, measurement duration, and configuration defined by the customer. The instrument typically generates data at a sampling rate of 10 Hz, and in specific configurations up to 50 Hz – 1 kHz for 10 Hz periods. The device stores up to 3000 measurement records locally. The total data volume therefore varies depending on measurement frequency and duration. The estimated volume of a single measurement record is approximately 1 to 2 KB.	The volume of generated data depends on measurement duration, measurement duration, and configuration defined by the customer. The instrument typically generates data at a sampling rate of 10 Hz. The device stores up to 1000 measurement records locally. The total data volume therefore varies depending on measurement frequency and duration. The estimated volume of a single measurement record is approximately 1 to 2 KB.	The volume of generated data depends on the sampling rate, measurement duration, and configuration defined by the customer. The instrument typically generates data at a sampling rate of 10 Hz. The device stores up to 3000 measurement records locally. The total data volume therefore varies depending on measurement frequency and duration. The estimated volume of a single measurement record is approximately 1 to 2 KB.	The volume of generated data depends on the measurement duration, and configuration defined by the customer. The instrument typically generates data at a sampling interval of 5s. A typical measurement can last 24 to 48 hours. The device stores up to 100 measurement records locally. The total data volume therefore varies depending on measurement frequency and duration. The estimated volume of a single measurement record is approximately 500 KB.	The total volume of generated data depends on the sampling rate and measurement duration. For the customer E5, the sampling interval is 5s. The estimated volume of a single measurement record is approximately 1 to 2 KB. For the Castemp E5, the single measurement can be up to 100 KB.	The total volume of generated data depends on the sampling rate and usage patterns defined by the customer. No data is stored. The estimated volume of a single measurement record is approximately 1 to 2 KB.	The volume of generated data depends on the attached instrument, use them generated data is more information.	
The indication of whether the product is capable of generating data continuously and in real time.	The instrument generates measurement data continuously and in real-time during an active measurement session (i.e. while a disposable sensor is connected). "Continuously" means data is generated as a constant stream during the measurement. "In real-time" means that data is made available to the user without material delay. The typical sampling rate is 10 Hz.							NA
Sampling rate	The sample rate is typically 10Hz, in some special cases, this can be 50 Hz to 1 kHz. The 10Hz will be for a very short period, max 5 seconds.	The sample rate is 10Hz	The sample rate is 10Hz	The sample interval is 5 s or higher	The sample rate is typically 10Hz, in some special cases, this can be up to 50 Hz for a few seconds. For the customer E5, the sampling interval is 5s.	The sample rate is typically 10Hz, in some special cases, this can be up to 250 Hz for a few seconds.	The sample rate is 10Hz	NA
The indication of whether the product is capable of storing data on a device, including, if applicable, the intended storage duration.	Measurement data is stored locally on the device according to the FIFO (first, first out) principle, the latest 3,000 measurement records are retained. The device does not transmit measurement data to a remote server operated by the manufacturer unless the user or customer explicitly configures such transmission. As the local storage operates on the FIFO principle, older records are automatically overwritten once the 3,000-record limit is reached. Users are responsible for exporting data if long-term retention is required.	The device does not transmit measurement data to a remote server operated by the manufacturer unless the user or customer explicitly configures such transmission. As the local storage operates on the FIFO principle, older records are automatically overwritten once the 1,000-record limit is reached. Users are responsible for exporting data if long-term retention is required.	The device does not transmit measurement data to a remote server operated by the manufacturer unless the user or customer explicitly configures such transmission. As the local storage operates on the FIFO principle, older records are automatically overwritten once the 3,000-record limit is reached. Users are responsible for exporting data if long-term retention is required.	The device does not transmit measurement data to a remote server operated by the manufacturer unless the user or customer explicitly configures such transmission. As the local storage operates on the FIFO principle, older records are automatically overwritten once the 100-record limit is reached. Users are responsible for exporting data if long-term retention is required.	Logging information is stored on the SD card in the instrument according to FIFO. Older log data is removed to make space for more recent log data. Up to 2.5 GB of log data can be stored. The most recent log data is retained until the instrument is decommissioned or is explicitly removed by a user. Measurement trace data is stored on the SD card in the instrument according to FIFO. Older traces are removed to make space for more recent traces. Up to 2.5 GB of 1000 measurement traces can be stored. The most recent trace data is retained until the instrument is decommissioned or is explicitly removed by a user. The instrument configuration can be exported to the SD card. The latest instrument configuration is retained until the instrument is decommissioned or is explicitly removed by a user. Up to one configuration file can be stored.	The instrument does not persistently store measurement data on-device. Only the most recent measurement record is kept on the instrument's memory. No measurement data is transmitted to or stored on a remote server operated by the manufacturer. As no data is persistently stored, the question of retention duration does not arise. Users who require retention of measurement results must export or record data externally.	Measurement data is stored locally on the device. The device does not transmit measurement data to a remote server operated by the manufacturer unless the user or customer explicitly configures such transmission. If users have chosen to use the SD card, some data may be retained on the SD card. Users are responsible for keeping the database size below this range otherwise measurements can risk not being stored. anyone. If users have bought an sd card service, data is stored externally.	
The information on how the user can access, retrieve the data	Measurements can be communicated directly to the customer/parties by different configurable protocols: -Ethernet telnet -Serial telnet -Ethernet XDTU -Modbus RTU -Modbus TCP -Profibus -Modbus -and so on Measurements can be exported in machine-readable formats such as JSON and XML, as well as in human-readable PDF reports. Settings can be accessed via the graphical user interface. The manufacturer does not access or retrieve measurement data unless explicitly authorized by the customer for support or maintenance purposes.	Measurements can be communicated directly to the customer/parties by different configurable protocols: -Ethernet telnet -Serial telnet -Ethernet XDTU -Modbus RTU -Modbus TCP -Profibus -Modbus -and so on Measurements can be exported in machine-readable formats such as JSON and XML, as well as in human-readable PDF reports.	Measurements can be accessed via the display/user interface of the instrument. Measurements can be communicated directly to the customer/parties by the sharing over WiFi. Measurements can be exported in machine-readable formats such as JSON and XML, as well as in human-readable PDF reports.	Measurements can be accessed via the display/user interface of the instrument. Measurements can be communicated directly to the customer/parties by different configurable protocols: -Ethernet telnet -Serial telnet -Ethernet XDTU -Modbus RTU -Modbus TCP -Profibus -Modbus -and so on Measurements can be exported in machine-readable formats such as JSON and XML, as well as in human-readable PDF reports.	Logging can be accessed by removing the SD card from the instrument and read back on a PC. Instrument configuration can be accessed through the FTP server, implemented on the instrument. Instrument configuration can be accessed by removing the SD card from the instrument and reading it back on a PC. Measurement traces can be accessed through the FTP server, implemented on the instrument. Measurement traces can be accessed through the FTP server, implemented on the instrument. Certain aspects of measurement data (evaluations, calculations, measurement outcomes) can be made accessible on the instrument's RGB screen, via industrial field bus connected customer equipment, via external display and/or HMI/PLC-based applications. Settings can be configured via the internal display.	No data		