Evaluate, React, and Decide

Software Collector / SmartView3

Functions:
Web based visualization and data collection software for Lufft dataloggers/ transmitters

Storage of data in database

Flexible export and import functions for integration of external/third party software/data (CSV and XML)

Simultaneous data collection via unlimited communication modules (e.g.modems)

Integration of webcam pictures (via TCP/IP-FTP)

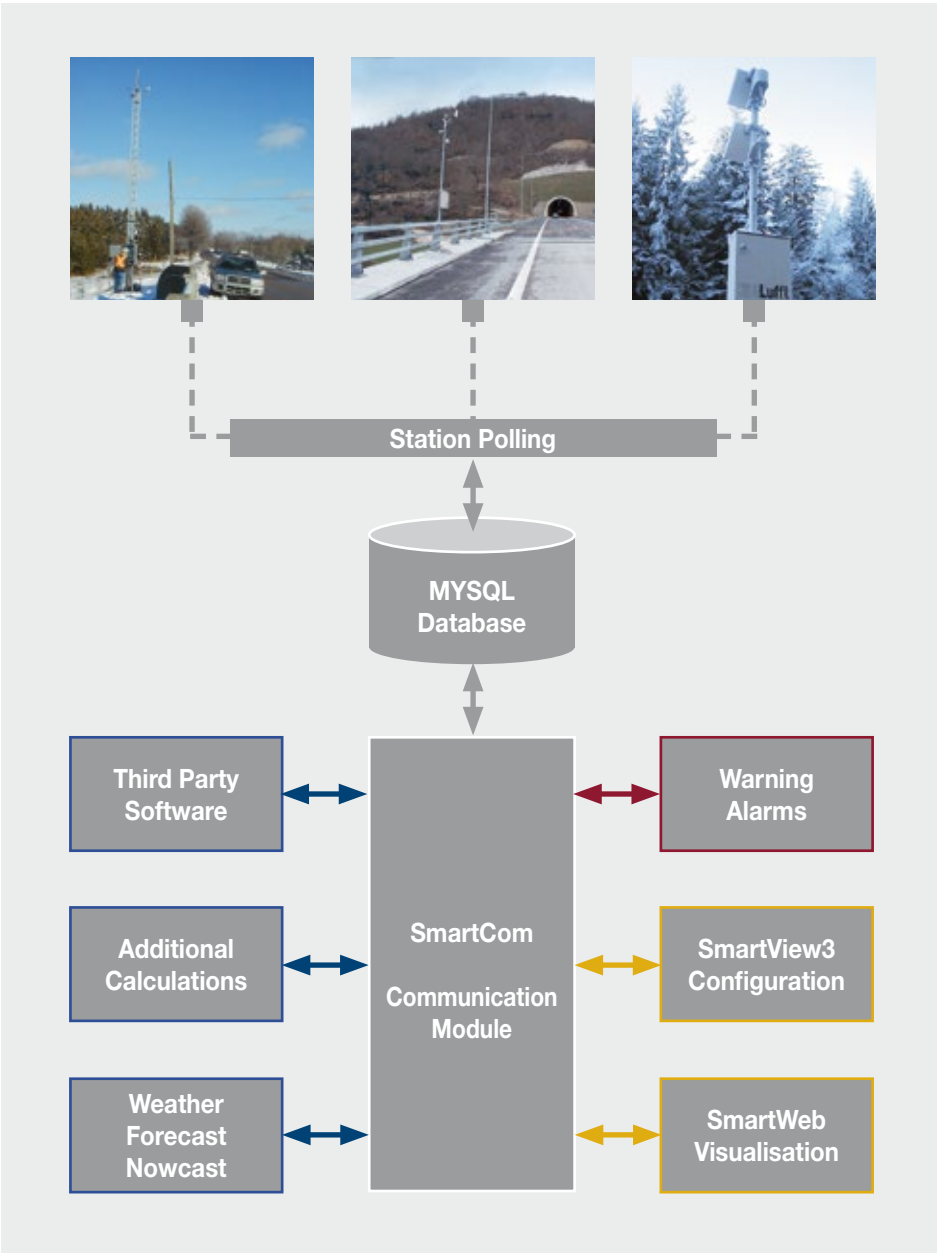
Basis version Collector
(Collector for up to 5 stations)
Order No.: 8160.COLLECT05

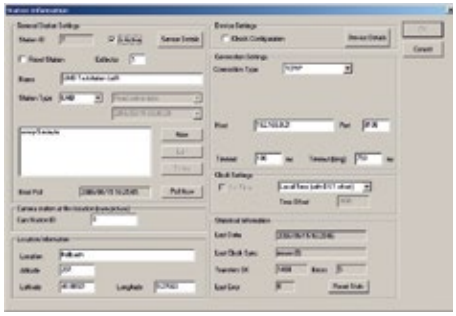
Unlimited version Collector
(unlimited quantity of stations)
Order No.: 8160.COLLECT

SmartView3 incl. Collector
up to 5 stations
Order No.: 8040.SV05

SmartView3 incl. Collector
unlimited
(Web visualization)
Order No.: 8040.SV300

New functions:
- Extremely flexible alarm (SMS, email, voicemail)
- 6 hours forecast module





Measurements

Please note:

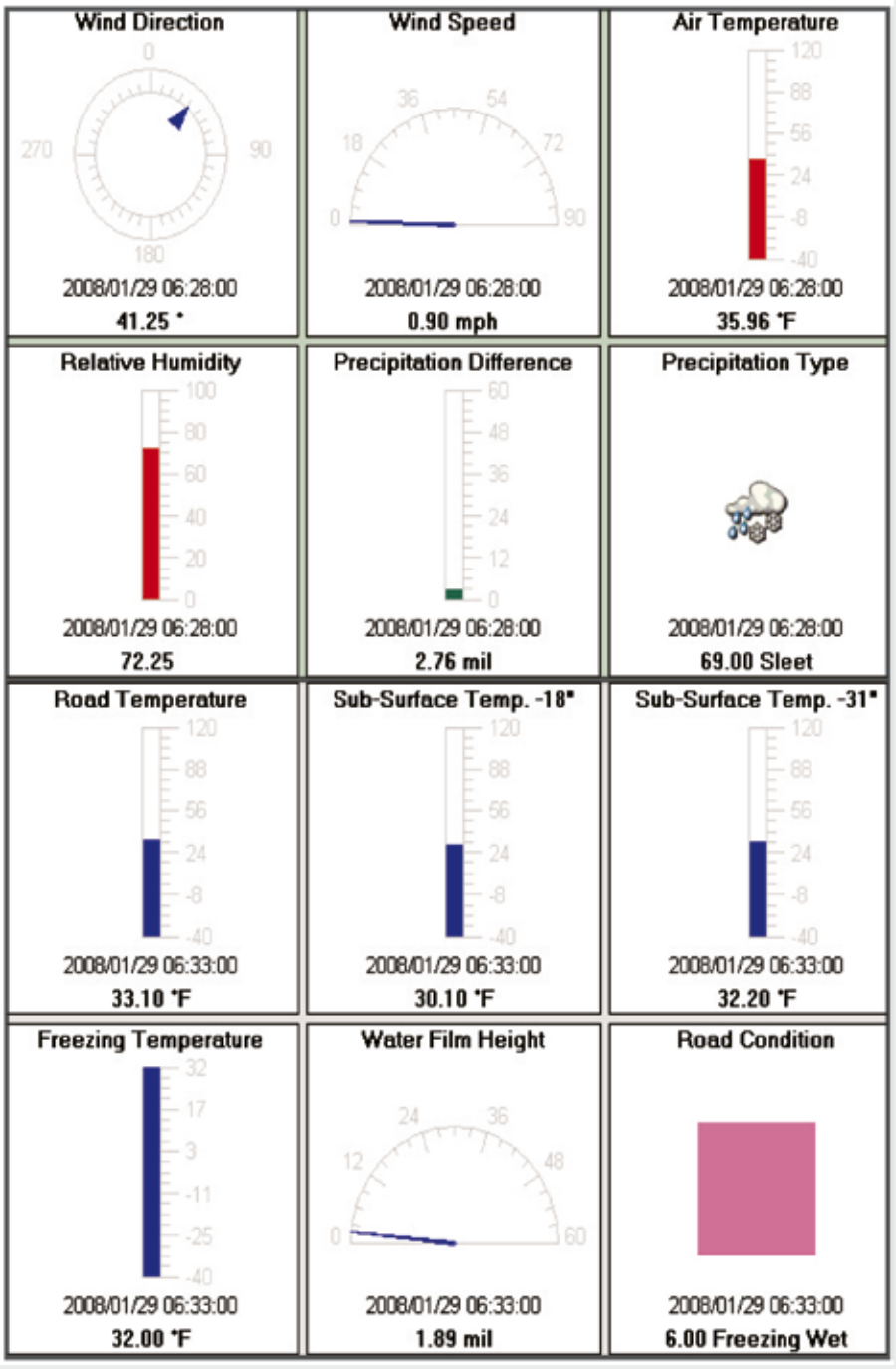
- Road surface temperature below 0 degrees Celsius and below dew point causes frost.

- Liquid precipitation (rain) on frozen ground causes black ice (subsurface road temperature below 0 degrees Celsius).

Integration of a camera image into the visualization

Graphical displays (day and week charts)

Measurement data in tabular form



SmartView3 Functions Overview

Functions Overview of SmartView3 1.8.2 (as of 2011)				
	Collector (Basic)	**Collector (Unlimited)**	**Full (up to 5 stations)**	**Full (up to 300 stations)**
Data transfer				
Quantity of weather stations	max. 5	unlimited	max. 5	unlimited
Types of stations				
Station type Opus200 (on-and offline)	■	■	■	■
Station type Opus2 (on-and offline)	■	■	■	■
Station type UMB (online)	■	■	■	■
Station type HP100 (offline)	■	■	■	■
Read sensor configurations	all types	all types	all types	all types
Change sample and storage rate and memory mode (Min/Max/ave)	for OPUS200	for OPUS200	for OPUS200	for OPUS200
Station type “import”	■	■	■	■
Station type “TLSoIP”	■	■	■	■
Station type “Boschung TLS”	■	■	■	■
Station type „MSSI“	■	■	■	■
Station type „NTCIP“	■	■	■	■
Transfer camera picture via FTP	■	■	■	■
Transfer camera picture via HTTP	■	■	■	■
Transfer camera picture via MSSI	■	■	■	■
Transfer camera picture via NTCIP	■	■	■	■
Connections				
Direct (RS232)	■	■	■	■
TCP/IP (Station with COM Server or CDMA/GPRS Modem with fixed IP address or DynDNS support)	■	■	■	■
Modem (TAPI)	■	■	■	■
PPP (camera picture only)	■	■	■	■
PPP (for NTCIP)	■	■	■	■
Intervals				
Fixed (e. g. every 20 minutes)	■	■	■	■
No transfer at special night periods (e. g. not between 10.00 p. m. and 5.00 a. m.)	■	■	■	■
Special times	■	■	■	■
Modem poll				
Max quantity of modems	unlimited	unlimited	unlimited	unlimited
“Modem Pools” (poll stations with dedicated modems)	■	■	■	■
Recalculation of values				
Re-scale data before storing in the database	■	■	■	■
Mapping of data before storing in the database (e. g. change of road conditions codes)	■	■	■	■
Clock synchronization				
Synchronization of device clock (datalogger) through PC clock device clock can be UTC or local time (with or without summertime adjustment)	■	■	■	■
Calculation channel				
Calculation of sensor data as “calculation channel” according to delivered raw data. Immediately: scale of raw data for a configurable coefficient, generation of sum/average/minimum value/maximum value for a specific period of time, mapping of the values	■	■	■	■
Logic sensor types				
Same presentation of channels of different stations such as OPUS200 and OPUS208 and UMB	■	■	■	■
Hide/delete measured values of channels dependent upon another channel (e.g. hide freezing point if no residual salt is detected)	■	■	■	■

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Backup/archive of data				
Time-controlled automatic backup of full database	■	■	■	■
Time-controlled deletion of old data in database (including backup of data before deletion starts)	■	■	■	■
Time-controlled compression of data in the database including backup before compression starts (reduction of data down to one value per hour/day)	■	■	■	■
Time-controlled deletion of “old” camera pictures in the database (including backup of data before deletion starts)	■	■	■	■
Restore of backup-data - including deletion of compressed data before restoring process starts (if the backup is the result of a data compression)	■	■	■	■
Automatic transfer of backup-file onto a server via FTP	■	■	■	■
User access administration				
Administration of users / functions and user groups	■	■	■	■
Admission to functions for users/groups	■	■	■	■
Create/delete stations	■	■	■	■
Edit/view configuration of a station	■	■	■	■
Create/delete website			■	■
Change configuration of website			■	■
Edit/view configuration of website			■	■
Create/change user	■	■	■	■
Change configuration data of software	■	■	■	■
Export/Import				
Manual Export/Import			■	■
Automatic Export/Import			■	■
Export of configurable values of one or more stations in one file			■	■
Export in “CSV” format incl. parameter settings			■	■
Import in “CSV” format incl. parameter settings			■	■
Export as a “Hex Dump of a TLS Telegram“			■	■
Export in “XML” format incl. parameter settings			■	■
Scale of data for export (e. g. recalculation of m/s into km/h)			■	■
Mapping of data for export (e. g. recalculation of road conditions codes)			■	■
Scale of import-data before storing the data in the database			■	■
Mapping of import-data before storing the data in the database			■	■
Configuration of export/import jobs (mainly for plan disease calculations)			■	■
Different export-import modules such as disease calculation models, dew point calculation, road forecast (24h)			■	■
External software modules for Export/Import				
External software module for the dew point and vaporation pressure calculation			■	■
External software for the combined road condition calculation			■	■
External software for the calculation „alarm road condition“			■	■

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External modules for agricultural applications				
Apple Scab *(Venturia inequalis)*	■	■	■	■
Onion: Downey Mildew *(Peronospora destructor)*	■	■	■	■
Onion: Neck Rot *(Bortytis squamosa)*	■	■	■	■
Carrot Alternariosis *(Alternaria dauci, A. radicina)*	■	■	■	■
Potato: Late Blight *(Phytophtora infestans)*	■	■	■	■
Fire Blight *(Erwinia amyloflora)*	■	■	■	■
Strawberry: Grey mould *(Botrytis cinera)*	■	■	■	■
Beetroot: Leaf Spot *(Cercospora spp.)*	■	■	■	■
Grape Vine Downey Mildew *(Plasmopara viticola)*	■	■	■	■
Grape Vine Powdery Mildew *(Unicula necator)*	■	■	■	■
Bortytis Bunch Rot *(Botrytis cinerea)*	■	■	■	■
Seljaninov Hydrothermal Coefficient	■	■	■	■
Calculation channels				
Internal calculation of sensor data as “calculation channel” according to imported raw data. Scale of raw data for a configurable coefficient, generation of sum/average/minimum value/maximum value for a specific period of time; differential calculation with previous value; mapping of the values in a configurable table			■	■
Control of automatic import/export				
Export if new data has been stored			■	■
Time-controlled export (e. g. every 5 minutes)			■	■
Flexible definition of time-interval for export based on start-uptime			■	■
Export and execution of a software program			■	■
Export and automatic transfer of a file via FTP			■	■
Export and execution of a software program and import of the calculated result (e. g. disease model calculation)			■	■
FTP transfer of files before import starts			■	■
Time-controlled FTP transfer of files including “Wildcard” support			■	■
Automatic deletion of files transferred via FTP after transfer has been finished			■	■
Import of files including “Wildcard” support			■	■
Automatic deletion of import files after import has been finished			■	■
Visualization of data as “website”				
Indication of station‘s status (last data transfer, transfer success) in a table			■	■
Indication of station‘s status (last data transmission, transfer success) on a static map			■	■
Indication of (selected) sensor data in a “pop-up” window by “scroll over” with the mouse on a station, on the static map			■	■
Indication of status-information and current values of stations on “stations-page” per station			■	■
Indication of camera-picture on “stations-page” of a station			■	■
Graphic indication of the current value on the “station page” in the form of an analog-instrument			■	■
Indication of reports (day/month/year) with sum/average and extreme values during the report period of time, on the “station page”			■	■
Automatic generation of “data pages” to indicate the data in the given time interval, day/week/month/year (diagram and table)			■	■

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	Collector (Basic)	**Collector (Unlimited)**	**Full (up to 5 stations)**	**Full (up to 300 stations)**
Visualization of data as "website", *continued*				
Selectable "data pages" including current values from sensors of different stations and different storage intervals (day/week/month/year) on one page			■	■
Selectable line and status (bar) diagrams on "data-pages"; line diagrams with up to 4 different Y-axes (units). Scale of line diagrams manually or automatically-no other periods.			■	■
Indication of reports (depending on configured period for the station pages) with average/sum and extreme values on the period of time, on the station page			■	■
Management of "pages-archive" for data pages (historic measurements)			■	■
Automatic transfer of admission rights on to website/ webserver (cia .htaccess – function has to be active on web-server)			■	■
Automatic erasure of archive pages prior to configured period of time			■	■
Free configuration of text elements for data pages and stations pages			■	■
Archive of pictures			■	■
Easy configuration of stations pages and data pages via templates			■	■
Overview-table with current readings of all stations			■	■
Configuration of time-offsets for stations in different time zones			■	■
Group-status page(s) with sensor values and camera pictures			■	■
Freely configurable diagrammes with data from the last 12/24 hours on the stations' pages			■	■
Optional hide function of "non-available" measured values (e.g. residual salt with TLS)			■	■
Several linked map layers			■	■
Separate configuration of „pop-up information" to the stations (sensor value) from the overview table			■	■
Option of several overview tables (per map representation)			■	■
Optional automatic adjustment of map size to browser window			■	■
„Only camera" stations (stations without sensors)			■	■
Identification of stations with cameras /only camera on the map representation with corresponding icons			■	■
Menu optionally as a „hierarchical pop-up menu"			■	■
Nested/hierarchichal grouping of stations in the pop-up menus			■	■
Warnings and alarms				
Configuration of high and low threshold per sensor; generation of warnings/alarms if value is out of limits			■	■
Alarm message if station cannot be polled			■	■
Alarm message if import file cannot be used			■	■
In case of alarms, generation of email message (station could not be polled, sensor delivers error, sensor delivers error value/import, sensor delivers error / import, sensor delivers alarm value) to one or more destination addresses			■	■
Warning/alarm based on a condition value (road state)			■	■
SMS messages including alarm/warning contents to one or multiple destinations			■	■
Warning/alarm in case of violating selected thresholds			■	■
Selectable time frames for SMS alarms transmissions			■	■
Configuration of minimum time intervals between alarm messages			■	■
Configuration of time to repeat alarm messages			■	■