












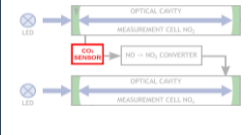

Item#	Description	Comments	Related articles	Image	ICAD (IC) Subtypes					
					Single	Dual	Emission	Long	Outdoor	
ICAD INSTRUMENTS										
ICAD NO2 / NOx Instruments in 19" Rack Housing										
ICAD-NO2-200	<p>ICAD-NO2-200 IN SITU NO2 MONITOR</p> <ul style="list-style-type: none"> > Direct nitrogen dioxide (NO₂) measurement with ICAD method > Time resolution up to 2 s • Precision up to 0.15 ppb @30 s • Range: 0 - 5 ppm > Data communication: LAN • RS232 • Analogue Voltage/Current • Wi-Fi (with ACC-WIFIUSB) > GPS for geolocation and time synchronisation (with IC-ACC-GPSEXT) > Connection for 12V power > 19" rack housing • Size 43.6 x 36.5 x 13.2 cm³ • Weight less than 10 kg • Front side display • Suitable for mobile measurements > Included: Large Zero air cartridge • Aerosol filter • 5 m PTFE tubing • Filter Keys • 3 m LAN cable > Patents: EP3329251 • DE 10 2015 000 423 • US15/748,923 • China ZL201680057099.6 	<p>GENERAL: This is the single channel, "NO₂ only" version of the ICAD instrument in 19" rack format. Unlike the dual channel instruments ("D" in item name), it only measures NO₂, not NO_x.</p> <p>TIME RESOLUTION: 2 s in standard configuration. 1 s possible with custom configuration and additional data post processing.</p>	<p>REQUIRED ARTICLES: WIFI Stick [ACC-WIFIUSB] • External power supply [ACC-PWR-8A]</p> <p>RECOMMENDED ARTICLES: GPS [IC-ACC-GPSEXT] • Operator Display Tablet [ACC-TAB] • ICAD cooling option [IC-CON-COOL] • ICAD integrated co₂ IR-Sensor [IC-CON-CO2SENS] • PTFE aerosol pore filter [IC-SPARE-FILT] • PTFE aerosol depth filter [IC-SPARE-PREFILT] • Zero air filter system - High capacity [IC-SPARE-ZERO400] • Zero air filter system - Regular capacity [IC-SPARE-ZERO115] • Maintenance [IC-MAINT-SET] • Spare part set [IC-SPARE-SET-NO2] • Services [IC-SERV-NO2-EXT] & [IC-SERV-EXT]</p>							
ICAD-NOx-200D	<p>ICAD-NOx-200D TWO CHANNEL IN SITU NOx MONITOR</p> <ul style="list-style-type: none"> > Direct nitrogen dioxide (NO₂) gas measurement with ICAD method > Nitrogen oxide (NO_x) measurement with conversion of NO to NO₂, direct measurement with ICAD method > Time resolution up to 2 s • Precision up to 0.15 ppb @30 s • Range: 0 - 5 ppm > Data communication: LAN • RS232 • Analogue Voltage/Current • Wi-Fi (with ACC-WIFIUSB) > GPS for geolocation and time synchronisation (with IC-ACC-GPSEXT) > Connection for 12V power > 19" rack housing • Size 43.6 x 36.5 x 13.2 cm³ • Weight less than 10 kg • Front side display • Suitable for mobile measurements > Included: Large Zero air cartridge • Aerosol filter • 5 m PTFE tubing • Filter Keys • 3 m LAN cable > Patents: EP3329251 • DE 10 2015 000 423 • US15/748,923 • China ZL201680057099.6 	<p>GENERAL: The "D"-version is a dual channel instrument in 19" rack format which is able to measure NO_x by simultaneous measurement of both NO₂ and NO.</p> <p>TIME RESOLUTION: 2 s in standard configuration. 1 s possible with custom configuration and additional data post processing.</p>	<p>REQUIRED ARTICLES: WIFI Stick [ACC-WIFIUSB] • External power supply [ACC-PWR-8A]</p> <p>RECOMMENDED ARTICLES: GPS [IC-ACC-GPSEXT] • Operator Display Tablet [ACC-TAB] • ICAD cooling option [IC-CON-COOL] • ICAD integrated co₂ IR-Sensor [IC-CON-CO2SENS] • PTFE aerosol pore filter [IC-SPARE-FILT] • PTFE aerosol depth filter [IC-SPARE-PREFILT] • Zero air filter system - High capacity [IC-SPARE-ZERO400] • Zero air filter system - Regular capacity [IC-SPARE-ZERO115] • Maintenance [IC-MAINT-SET] • Spare part set [IC-SPARE-SET-NOX] • Services [IC-SERV-NOX-EXT] & [IC-SERV-EXT]</p>							
ICAD-NOx-200DE	<p>ICAD-NOx-200DE TWO CHANNEL IN SITU NO_x/CO₂ MONITOR</p> <ul style="list-style-type: none"> > Direct nitrogen dioxide (NO₂) gas measurement with ICAD method > Nitrogen oxide (NO_x) measurement with conversion of NO to NO₂, direct measurement with ICAD method > Time resolution up to 2 s • Precision up to 0.15 ppb @30 s • Range: 0 - 5 ppm > Direct measurement of NO_x LDV and HDV emission factors (EURO class) > Data communication: LAN • RS232 • Analogue Voltage/Current • Wi-Fi (with ACC-WIFIUSB) > GPS for geolocation and time synchronisation (with IC-ACC-GPSEXT) > 19" rack housing • Size 43.6 x 36.5 x 13.2 cm³ • Weight less than 10 kg • Front side display • Suitable for mobile measurements > Including online vehicle emission analysis software with the "Plume Chasing"-principle > Integrated CO₂ IR-Sensor (two wavelength measurements): Relative precision -2 ppm, accuracy -5 ppm with regular offset calibration • Range 0 - 2.000 ppm > Including ICAD cooling option: Cooling + heating to temperature stabilize measurement cell in warm (up to 35° C) and cold environments with an air to air cooling / heating system, measurement cell temperature stability -0.2° C (cooling option required for the combination with the CO₂ IR-sensor) > Included: Large Zero air cartridge • Aerosol filter • 5 m PTFE tubing • Filter Keys • 3 m LAN cable > Patents: EP3329251 • DE 10 2015 000 423 • US15/748,923 • China ZL201680057099.6 	<p>GENERAL: The "DE"-version is an instrument for emission measurements with "Plume Chasing" or "Points Sampling" setups. The internal software directly derives NO_x and NO₂ emission factors for vehicles. The instrument is like the "D"- version a dual channel instrument in 19" rack format with additional CO₂ sensor. From the measured gases and its ratios, the system derives directly emission factors of NO_x and NO₂. The system comes always with a cooling option.</p> <p>TIME RESOLUTION: 2 s in standard configuration. 1s possible with custom configuration and additional data post processing.</p>	<p>REQUIRED ARTICLES: WIFI Stick [ACC-WIFIUSB] • External power supply [ACC-PWR-8A]</p> <p>RECOMMENDED ARTICLES: GPS [IC-ACC-GPSEXT] • Operator Display Tablet [ACC-TAB] • PTFE aerosol pore filter [IC-SPARE-FILT] • PTFE aerosol depth filter [IC-SPARE-PREFILT] • Zero air filter system - High capacity [IC-SPARE-ZERO400] • Zero air filter system - Regular capacity [IC-SPARE-ZERO115] • Maintenance [IC-MAINT-SET] • Spare part set [IC-SPARE-SET-NOX] • Services [IC-SERV-NOX-EXT] & [IC-SERV-EXT] • Plume Chasing measurement probe system [IC-ACC-PROBESYS]</p>							
ICAD-NO2-200L	<p>ICAD-NO2-200L IN SITU NO2 MONITOR - HIGH GRADE VERSION</p> <ul style="list-style-type: none"> > Direct nitrogen dioxide (NO₂) gas measurement with ICAD method > Time resolution up to 2 s • Precision up to 0.012 ppb @1800 s • Range: 0 - 2 ppm > Increased sensitivity resonator cell configuration > Data communication: LAN • RS232 • Analogue Voltage/Current • Wi-Fi (with ACC-WIFIUSB) > GPS for geolocation and time synchronisation (with IC-ACC-GPSEXT) > 19" rack housing • Size 43.6 x 61 x 13.2 cm³ • Weight less than 12 kg • Front side display • Suitable for mobile measurements > Included: Large Zero air cartridge • Aerosol filter • 5 m PTFE tubing • Filter Keys • 3 m LAN cable > Patents: EP3329251 • DE 10 2015 000 423 • US15/748,923 • China ZL201680057099.6 	<p>GENERAL: Like [ICAD-NO2-200]. The "L"-version features an enhanced resonator which is optimized for higher sensitivity for applications where low NO₂ concentrations need to be measured with high precision.</p> <p>Enhanced Resonator: Almost twice as long measurement cell and high grade mirrors.</p> <p>TIME RESOLUTION: 2 s in standard configuration. 1 s possible with custom configuration and additional data post processing.</p>	<p>REQUIRED ARTICLES: WIFI Stick [ACC-WIFIUSB] • External power supply [ACC-PWR-8A]</p> <p>RECOMMENDED ARTICLES: GPS [IC-ACC-GPSEXT] • Operator Display Tablet [ACC-TAB] • ICAD cooling option [IC-CON-COOL] • ICAD integrated co₂ IR-Sensor [IC-CON-CO2SENS] • PTFE aerosol pore filter [IC-SPARE-FILT] • PTFE aerosol depth filter [IC-SPARE-PREFILT] • Zero air filter system - High capacity [IC-SPARE-ZERO400] • Zero air filter system - Regular capacity [IC-SPARE-ZERO115] • Maintenance [IC-MAINT-SET] • Spare part set [IC-SPARE-SET-NO2] • Services [IC-SERV-NO2-EXT] & [IC-SERV-EXT]</p>							

Item#	Description	Comments	Related articles	Image	ICAD (IC) Subtypes				
					Single	Dual	Emission	Long	Outdoor
ICAD-NOX-200DL	<p>ICAD-NOx-200DL IN SITU NOx MONITOR - HIGH GRADE VERSION</p> <ul style="list-style-type: none"> > Direct nitrogen dioxide (NO₂) gas measurement with ICAD method > Nitrogen oxide (NO_x) measurement with conversion of NO to NO₂ > Time resolution up to 2 s • Precision up to 0.012 ppb @1800 s • Range: 0 - 2 ppm > Increased sensitivity resonator cell configuration > Data communication: LAN • RS232 • Analogue Voltage/Current • WiFi (with ACC-WIFIUSB) > GPS for geolocation and time synchronisation (with IC-ACC-GPSEXT) > 19" rack housing • Size 43.6 x 61 x 14 cm³ • Weight less than 12 kg • Front side display • Suitable for mobile measurements > Included: Large Zero air cartridge • Aerosol filter • 5 m PTFE tubing • Filter Keys • 3 m LAN cable > Patents: EP3329251 • DE 10 2015 000 423 • US15/748,923 • China ZL201680057099.6 	<p>GENERAL: Like [ICAD-NOX-200D]. The "L"-version features and enhanced resonator which is optimized for higher sensitivity for applications where low NO_x concentrations need to be measured with high precision.</p> <p>Enhanced Resonator: Almost twice as long measurement cell and high grade mirrors.</p> <p>TIME RESOLUTION: 1 s possible with custom configuration and additional data post processing.</p>	<p>REQUIRED ARTICLES: WIFI Stick [ACC-WIFIUSB] • External power supply [ACC-PWR-8A]</p> <p>RECOMMENDED ARTICLES: GPS [IC-ACC-GPSEXT] • Operator Display Tablet [ACC-TAB] • ICAD cooling option [IC-CON-COOL] • ICAD integrated co₂ IR-Sensor [IC-CON-CO2SENS] • PTFE aerosol pore filter [IC-SPARE-FILT] • PTFE aerosol depth filter [IC-SPARE-PREFILT] • Zero air filter system - High capacity [IC-SPARE-ZERO400] • Zero air filter system - Regular capacity [IC-SPARE-ZERO115] • Maintenance [IC-MAINT-SET] • Spare part set [IC-SPARE-SET-NOX] • Services [IC-SERV-NOX-EXT] & [IC-SERV-EXT]</p>						
ICAD-HONO-200L	<p>ICAD-HONO-200L IN SITU HONO AND NO2 MONITOR - HIGH GRADE VERSION</p> <ul style="list-style-type: none"> > Direct nitrous acid (HONO) and nitrogen dioxide (NO₂) gas measurement with ICAD method > Time resolution up to 2 s > Precision HONO: 0.1 ppb @10 s • 0.01 ppb @1000 s • Range: 0 - 0.5 ppm > Precision NO₂: 0.2 ppb @10 s • 0.02 ppb @1000 s • Range: 0 - 2 ppm > Increased sensitivity resonator cell configuration > Data communication: LAN • RS232 • Analogue Voltage/Current • Wi-Fi (with ACC-WIFIUSB) > GPS for geolocation and time synchronisation (with IC-ACC-GPSEXT) > 19" rack housing • Size 43.6 x 61 x 14 cm³ • Weight less than 12 kg • Front side display • Suitable for mobile measurements > Included: Large Zero air cartridge • Aerosol filter • 5 m PTFE tubing • Filter Keys • 3 m LAN cable > Patents: EP3329251 • DE 10 2015 000 423 • US15/748,923 • China ZL201680057099.6 	<p>GENERAL: Like [ICAD-NO2-200L], but operating on another wavelength range (UV) to detect nitrous acid (HONO). NO₂ is still detectable since it also provides significant absorbance in the UV wavelength range.</p> <p>TIME RESOLUTION: 2 s in standard configuration. 1 s possible with custom configuration and additional data post processing.</p>	<p>REQUIRED ARTICLES: WIFI Stick [ACC-WIFIUSB] • External power supply [ACC-PWR-8A]</p> <p>RECOMMENDED ARTICLES: GPS [IC-ACC-GPSEXT] • Operator Display Tablet [ACC-TAB] • ICAD cooling option [IC-CON-COOL] • ICAD integrated co₂ IR-Sensor [IC-CON-CO2SENS] • PTFE aerosol pore filter [IC-SPARE-FILT] • PTFE aerosol depth filter [IC-SPARE-PREFILT] • Zero air filter system - High capacity [IC-SPARE-ZERO400] • Zero air filter system - Regular capacity [IC-SPARE-ZERO115] • Maintenance [IC-MAINT-SET] • Spare part set [IC-SPARE-SET-HONO] • Services [IC-SERV-HONO-EXT] & [IC-SERV-EXT]</p>						
ICAD NO₂ / NO_x Instruments in PC IP64 housing									
ICAD-NO2-200-M	<p>ICAD-NO2-200-M IN SITU NO2 MONITOR, IP64 HOUSING</p> <ul style="list-style-type: none"> > Direct nitrogen dioxide (NO₂) gas measurement with ICAD method > Time resolution up to 2 s • Precision up to 0.15 ppb @ 30 s • Range: 0 - 5 ppm > Data communication: LAN • RS232 • Analogue Voltage/Current • Wi-Fi (with ACC-WIFIUSB) > GPS for geolocation and time synchronisation (with IC-ACC-GPSEXT) > Polycarbonate IP64 housing • Dust and weatherproof (incl. weatherproof connectors) • Size 30 x 40 x 13.2 cm³ • Weight ~7 kg • Suitable for mobile outdoor measurements > Included: Large Zero air cartridge • Aerosol filter • 5 m PTFE tubing • Filter Keys • 3 m LAN cable with IP68 connector > Patents: EP3329251 • DE 10 2015 000 423 • US15/748,923 • China ZL201680057099.6 	<p>GENERAL: Like [ICAD-NO2-200], but with rugged polycarbonate housing optimized for mobile and outdoor application.</p> <p>TIME RESOLUTION: 2 s in standard configuration. 1 s possible with custom configuration and additional data post processing.</p>	<p>REQUIRED ARTICLES: WIFI Stick [ACC-WIFIUSB] • External power supply [ACC-PWR-8A]</p> <p>RECOMMENDED ARTICLES: GPS [IC-ACC-GPSEXT] • Operator Display Tablet [ACC-TAB] • ICAD cooling option [IC-CON-COOL] • ICAD integrated co₂ IR-Sensor [IC-CON-CO2SENS] • PTFE aerosol pore filter [IC-SPARE-FILT] • PTFE aerosol depth filter [IC-SPARE-PREFILT] • Zero air filter system - High capacity [IC-SPARE-ZERO400] • Zero air filter system - Regular capacity [IC-SPARE-ZERO115] • Maintenance [IC-MAINT-SET] • Spare part set [IC-SPARE-SET-NO2] • Services [IC-SERV-NO2-EXT] & [IC-SERV-EXT]</p>						
ICAD-NOX-200D-M	<p>ICAD-NOX-200D-M TWO CHANNEL IN SITU NOX MONITOR, IP64 HOUSING</p> <ul style="list-style-type: none"> > Direct nitrogen dioxide (NO₂) gas measurement with ICAD method > Nitrogen oxide (NO_x) measurement with conversion of NO to NO₂ > Time resolution up to 2 s • Precision up to 0.15 ppb @ 30 s • Range: 0 - 5 ppm > Data communication: LAN • RS232 • Analogue Voltage/Current • Wi-Fi (with ACC-WIFIUSB) > GPS for geolocation and time synchronisation (with IC-ACC-GPSEXT) > Polycarbonate IP64 housing • Dust and weatherproof (incl. weatherproof connectors) • Size 30 x 40 x 13.2 cm³ • Weight less than 10 kg • Suitable for mobile outdoor measurements > Included: Large Zero air cartridge • Aerosol filter • 5 m PTFE tubing • Filter Keys • 3 m LAN cable with IP68 connector > Patents: EP3329251 • DE 10 2015 000 423 • US15/748,923 • China ZL201680057099.6 	<p>GENERAL: Like [ICAD-NOX-200D], but with rugged polycarbonate housing optimized for mobile and outdoor application.</p> <p>TIME RESOLUTION: 2 s in standard configuration. 1 s possible with custom configuration and additional data post processing.</p>	<p>REQUIRED ARTICLES: WIFI Stick [ACC-WIFIUSB] • External power supply [ACC-PWR-8A]</p> <p>RECOMMENDED ARTICLES: GPS [IC-ACC-GPSEXT] • Operator Display Tablet [ACC-TAB] • ICAD cooling option [IC-CON-COOL] • ICAD integrated co₂ IR-Sensor [IC-CON-CO2SENS] • PTFE aerosol pore filter [IC-SPARE-FILT] • PTFE aerosol depth filter [IC-SPARE-PREFILT] • Zero air filter system - High capacity [IC-SPARE-ZERO400] • Zero air filter system - Regular capacity [IC-SPARE-ZERO115] • Maintenance [IC-MAINT-SET] • Spare part set [IC-SPARE-SET-NOX] • Services [IC-SERV-NOX-EXT] & [IC-SERV-EXT]</p>						




Item#	Description	Comments	Related articles	Image	ICAD (IC) Subtypes					
					Single	Dual	Emission	Long	Outdoor	
ICAD-NO2-200DT-M	<p>ICAD-NO2-200DT-M TWO CHANNEL TWIN INLET IN SITU NO2 MONITOR, IP64 HOUSING</p> <ul style="list-style-type: none"> > Direct nitrogen dioxide (NO₂) gas measurement with ICAD method > Time resolution up to 2 s • Precision up to 0.15 ppb @ 30 s • Range: 0 - 5 ppm > Two inlets for parallel NO₂ measurements > Data communication: LAN • RS232 • Analogue Voltage/Current • Wi-Fi (with ACC-WIFIUSB) > GPS for geolocation and time synchronisation (with IC-ACC-GPSEXT) > Polycarbonate IP64 housing • Dust and weatherproof (incl. weatherproof connectors) • Size 30 x 40 x 13.2 cm³ • Weight less than 10 kg • Suitable for mobile outdoor measurements > Included: Large Zero air cartridge • Aerosol filter • 5 m PTFE tubing • Filter Keys • 3 m LAN cable with IP68 connector > Patents: EP3329251 • DE 10 2015 000 423 • US15/748,923 • China ZL201680057099.6 	<p>GENERAL: Like [ICAD-NOx-200D-M] but with "NO₂ only"-analysators and dual inlet for parallel measurement of sample air from two different sources. IC-CON-TWINLET</p> <p>TIME RESOLUTION: 2 s in standard configuration. 1 s possible with custom configuration and additional data post processing.</p>	<p>REQUIRED ARTICLES: Switchable Twinlet [IC-CON-TWINLET] • WIFI Stick [ACC-WIFIUSB] • External power supply [ACC-PWR-8A]</p> <p>RECOMMENDED ARTICLES: GPS [IC-ACC-GPSEXT] • Operator Display Tablet [ACC-TAB] • ICAD cooling option [IC-CON-COOL] • ICAD integrated co₂ IR-Sensor [IC-CON-CO2SENS] • PTFE aerosol pore filter [IC-SPARE-FILT] • PTFE aerosol depth filter [IC-SPARE-PREFILT] • Zero air filter system - Regular capacity [IC-SPARE-ZERO115] • Maintenance [IC-MAINT-SET] • Spare part set [IC-SPARE-SET-NO2] • Services [IC-SERV-NO2-EXT] & [IC-SERV-EXT]</p>							
ICAD-NOx-200DE-M	<p>ICAD-NOx-200DE-M TWO CHANNEL IN SITU NOX/CO2 MONITOR, IP64 HOUSING</p> <ul style="list-style-type: none"> > Direct nitrogen dioxide (NO₂) gas measurement with ICAD method > Nitrogen oxide (NO_x) measurement with conversion of NO to NO₂ > Time resolution up to 2 s • Precision up to 0.15 ppb @ 30 s • Range: 0 - 5 ppm > Direct measurement of NO_x LDV and HDV emission factors (EURO Class) > Data communication: LAN • RS232 • Analogue Voltage/Current • Wi-Fi (with ACC-WIFIUSB) > GPS for geolocation and time synchronisation (with IC-ACC-GPSEXT) > Polycarbonate IP64 housing • Dust and weatherproof (incl. weatherproof connectors) • Size 30 x 40 x 13.2 cm³ • Weight less than 10 kg • Suitable for mobile outdoor measurements > Including online vehicle emission analysis software with the "Plume Chasing"-principle > Integrated CO₂ IR-Sensor (two wavelength measurements): Relative precision -2 ppm, accuracy -5 ppm with regular offset calibration, range 0 - 2.000 ppm > Including ICAD cooling option: Cooling + heating to temperature stabilize measurement cell in warm (up to 35°C) and cold environments with an air to air cooling / heating system, measurement cell temperature stability -0.2°C (cooling option required for the combination with the CO₂ IR-sensor) > Included: Large Zero air cartridge • Aerosol filter • 5 m PTFE tubing • Filter Keys • 3 m LAN cable with IP68 connector > Patents: EP3329251 • DE 10 2015 000 423 • US15/748,923 • China ZL201680057099.6 	<p>GENERAL: Like [ICAD-NOx-200DE] but in the weatherproof IP64 housing. Includes an instrument cooling and CO₂ sensor.</p> <p>TIME RESOLUTION: 2 s in standard configuration. 1 s possible with custom configuration and additional data post processing.</p>	<p>REQUIRED ARTICLES: WIFI Stick [ACC-WIFIUSB] • External power supply [ACC-PWR-8A]</p> <p>RECOMMENDED ARTICLES: GPS [IC-ACC-GPSEXT] • Operator Display Tablet [ACC-TAB] • PTFE aerosol pore filter [IC-SPARE-FILT] • PTFE aerosol depth filter [IC-SPARE-PREFILT] • Zero air filter system - High capacity [IC-SPARE-ZERO400] • Zero air filter system - Regular capacity [IC-SPARE-ZERO115] • Maintenance [IC-MAINT-SET] • Spare part set [IC-SPARE-SET-NOX] • Services [IC-SERV-NOX-EXT] & [IC-SERV-EXT] • Plume Chasing measurement probe system [IC-ACC-PROBESYS]</p>							
ICAD-UAV	<p>Add-on: Customized, lightweight version of ICAD instruments for UAV applications.</p> <ul style="list-style-type: none"> > Additional price for this special configuration > instrument weight - 6.5kg (for ICAD-NOx-200D-M) > Aluminium housing • Size: 40 x 30 x 17 cm³ 	Available for standard ICAD configurations (non-"L" versions).	<p>REQUIRED ARTICLES: ICAD-NO2-200-M IN SITU NO2 MONITOR [ICAD-NO2-200-M] or ICAD-NOx-200D-M TWO CHANNEL IN SITU NOX MONITOR [ICAD-NOx-200D-M]</p>							

Item#	Description	Comments	Related articles	Image	ICAD (IC) Subtypes				
					Single	Dual	Emission	Long	Outdoor

OPTIONAL INSTRUMENT CONFIGURATIONS (TO BE ORDERED WITH THE INSTRUMENT)










IC-CON-CO2SENS	<p>ICAD INTEGRATED CO2 IR-SENSOR</p> <ul style="list-style-type: none"> > Extends the ICAD system by measurements of CO2 concentrations > Sensor mounted within the instrument, no additional external parts > Including online vehicle emission analysis software with the "Plume Chasing" principle • Integrated and synchronised into ICAD software > Specification and properties: IR intensity measurements at two wavelength • Time resolution: Up to 2 s • Relative precision: -2 ppm • Accuracy: -5 ppm with regular offset calibration • Range: 0 - 2000 ppm 	<p>Extension for integrated CO2 sensor needed for emission measurements (NOx/CO2) or emission plume detection. Required for [ICAD-NOX-200DE] & [ICAD-NOX-200DE-M].</p>	<p>REQUIRED ARTICLES: Cooling Option for temperature stability of CO2 sensor [IC-CON-COOL]</p>		•	•	•	•	•
IC-CON-COOL	<p>ICAD COOLING OPTION</p> <ul style="list-style-type: none"> > To be configured for ICAD Instrument: ICAD cooling + heating option to temperature stabilize measurement cell in warm and cold environments (-10°C to 35°C) > Air to air cooling/heating system > Measurement cell temperature stability -0.2°C to 35°C 	<p>By ordering, the cooling (air to air peltier unit) option it will be integrated at the ICAD analyser back plate. It is mandatory for ICAD instruments with integrated CO2 sensor [IC-CON-CO2SENS] to provide stable temperatures for optimal measurement precision at higher ambient temperatures (above 24°C). This is also beneficial for the overall measurement precision of the ICAD and extends the ambient temperature working range of the instrument.</p>			•	•	•	•	•










MEASUREMENT COMPUTERS











PC-DE	<p>MEASUREMENT COMPUTER - DESKTOP PC</p> <ul style="list-style-type: none"> > Windows 10 installed and optimised for Airyx instrument measurement applications > Installation and configuration of measurement and (if included) evaluation software packages. 	<p>If a measurement computer is ordered with a Airyx instrument, the required measurement software (e.g. SKY-SOFT-*) will be installed and preconfigured on the computer at Airyx GmbH. Same applies if software extensions (e.g. SkySpec evaluation package SKY-EVAL-*) are ordered • The system will be pre-configured as a plug-and-play setup.</p>			•	•	•	•	•
PC-NB	<p>MEASUREMENT COMPUTER - NOTEBOOK</p> <ul style="list-style-type: none"> > Windows 10 installed and optimised for Airyx instrument measurement applications > Installation and configuration of measurement and (if included) evaluation software packages. 	<p>If a measurement computer is ordered with a Airyx instrument, the required measurement software (e.g. SKY-SOFT-*) will be installed and preconfigured on the computer at Airyx GmbH. Same applies if software extensions (e.g. SkySpec evaluation package SKY-EVAL-*) are ordered • The system will be pre-configured as a plug-and-play setup.</p>			•	•	•	•	•
PC-NBHP	<p>MEASUREMENT COMPUTER - NOTEBOOK - HIGH PERFORMANCE</p> <ul style="list-style-type: none"> > Windows 10 installed and optimised for Airyx instrument measurement applications > Installation and configuration of measurement and (if included) evaluation software packages. 	<p>If a measurement computer is ordered with an Airyx instrument, the required measurement software (e.g. SKY-SOFT-*) will be installed and preconfigured on the computer at Airyx GmbH. Same applies if a software extension (e.g. SKY-EVAL-*) is ordered • the system will be pre-configured as a plug-and-play setup • In the "HIGH PERFORMANCE" configuration a fast (i7 processor with 16GB RAM will be used); recommended for Open Path systems and SkySpec applications with calculation intensive data processing (going beyond the Airyx standard software packages)</p>			•	•	•	•	•








Item#	Description	Comments	Related articles	Image	ICAD (IC) Subtypes				
					Single	Dual	Emission	Long	Outdoor
EXTENSIONS AND ACCESSORIES									
ACC-TAB	OPERATOR DISPLAY TABLET (10") as user interface for Airyx ICAD or SkySpec Compact, Android OS, pre installed apps and links for ICAD control. > Includes: rugged frame protection, adapter USB-C --> USB 2.0, adapter USB --> LAN	Preconfigured Android tablet with shock protection for fast and easy control of ICAD and SkySpec Compact Instruments, especially for field measurements. Preconfigured for simple application e.g. of "Plume Chasing" measurements with [ICAD-NOX-200DE] or [ICAD-NOX-200DE-M]. Simple operation of instruments with touch screen. For mobile car applications, e.g., Plume Chasing, we recommend the [ACC-TAB-MNT] for stable mounting of the tablet in the car cockpit in compliance with traffic regulations.	RECOMMENDED ARTICLES: Car tablet mounting [ACC-TAB-MNT]		•	•	•	•	•
ACC-TAB-MNT	TABLET MOUNT CAR > Mount to fix the tablet (10"-13", e.g. [OPERATOR DISPLAY TABLET]) in the car > Length of metal arm: 56.5 cm > Will be mounted to front seat base screw which is present in any car from any brand	Enables mounting of Tablets or small notebooks in the car cockpit in compliance with traffic regulations for mobile applications, e.g., Plume Chasing.					•		
IC-ACC-SDCABLE	ICAD SERIAL ADAPTER CABLE Adapter cable for ICAD (IP68) to RS232 serial data connection (D-Sub 9) for serial data communication via standardised Bayern Hessen data protocol • Length 2 m • Including RS232 to USB adapter	Data cable to transmit data from ICAD via serial connection. USB adapter for alternative connection with USB port of a PC is included.			•	•	•	•	•
IC-ACC-ST1M	PTFE AIR SAMPLING TUBING - 6 mm DIAMETER • PER 1 m (cut on ordered length)	Standard sampling tube made of inert PTFE • If ordered with an instrument, the length will be added to the tubing length already included with the shipping • Interchangeable for Sample Air tubing and Plume Chasing Measurement probe system tubing.			•	•	•	•	•
IC-ACC-TPIECE	PVDF T-PIECE TUBING CONNECTOR - FOR 6 mm DIAMETER	T-connector piece to connect three 6 mm air sampling tubing's • Used for example in setup of tubing for Plume Chasing Probes			•	•	•	•	•
IC-ACC-PROBESYS	PLUME CHASING MEASUREMENT PROBE SYSTEM > Setup for gas sampling on a car with two air inlets (right and left) > Two inlets merged to one sample line (incl. T-piece gas connector) • incl. 5 m extra PTFE tubing [IC-ACC-ST1M] > For installation on the front bumper of a car with cable ties (included) or clamps • simple adjustment to every vehicle width > Flexible probe to avoid injuries	Sampling probe for mounting at the front of a Plume Chasing measurement vehicle • Includes all required tubing to perform on-road Plume Chasing measurements of NOx emissions factors with the ICAD instrument. Adjustable width (170 cm to 220 cm) and front end in relation to bumper. The double probe (right and left) has the advantage to make emission measurements independent of the exhaust position. Both inlets are merged with a T-piece [IC_ACC_TPIECE]. Sample position optimised for best signal strength.					•		
IC-ACC-GPSEXT	EXTERNAL GPS RECEIVER MODULE > Weatherproof u-blox 8 system with 5 m GPS cable • Serial data communication and connector to ICAD instruments > Automatic integration into ICAD measurement software • GPS position is stored for each data point • GPS time is used for instrument time synchronisation > Magnetic for easy mounting • Operation down to 0° C	External GPS receiver with matching connector for easy extension of ICAD instruments, especially for mobile applications, e.g., Plume Chasing.			•	•	•	•	•
IC-ACC-SWITCHBX	ICAD SWITCHABLE SAMPLE LINE BOX > Extension for ICAD systems > Automatic switching between two sampling lines with electromagnetic valve during measurement procedure > Two separated sample lines, two aerosol filters and data cable included	Extension for automated sampling from two different sources • Package includes additional inlet on ICAD housing and external switching box with remote controllable valves.			•	•	•	•	•
ACC-WIFIUSB	WIFI USB MODULE (Dongle)	External USB Wi-Fi module, externally connected to all ICAD variants or SKY-COMPACT-XXX instruments • Only this specific WIFI dongle is suitable for the Airyx instruments • For Wi-Fi data communication between instrument and any Wi-Fi device (e.g. [PC-1] or own device).			•	•	•	•	•
ACC-PWR-8A	EXTERNAL POWER SUPPLY - 110 TO 220 V - 12 V / 8.5 A IP68 connector configured for Airyx instruments.	Power supply for Airyx instruments with IP68 connector configured for Airyx instruments • Input: 110 V to 220 V • Output: regulated 12 V / 8.5 A			•	•	•	•	•

Product overview of Airyx GmbH









Item#	Description	Comments	Related articles	Image	ICAD (IC) Subtypes				
					Single	Dual	Emission	Long	Outdoor
ACC-PWR3	12 V POWER CABLE EXTENSION IP68 - 3 m	3 m extension 12 V connection between power supply and instrument • PUR outdoor cable with IP68 connectors on both sides • Can also be used to connect LiPo battery packs [ACC-BATPACK].			•	•	•	•	•
ACC-PWR5	12 V POWER CABLE EXTENSION IP68 - 5 m	5 m extension 12 V connection between power supply and instrument • PUR outdoor cable with IP68 connectors on both sides • Can also be used to connect LiPo battery packs [ACC-BATPACK].			•	•	•	•	•
ACC-PWRX	12 V POWER CABLE EXTENSION IP68 - CUSTOM LENGTH Price: 30 € + 5 €/m (Example price for 10 m)	Custom length extension 12 V connection between power supply and instrument • PUR outdoor cable with IP68 connectors on both sides. Flexible length, 30€ + 5€/M • Can also be used to connect LiPo battery packs [ACC-BATPACK].			•	•	•	•	•
ACC-PWR1.5BE	12 V POWER CABLE IP68- 1.5 m - BLANK END	1.5 m connection between instrument and arbitrary 12 V power supply • PUR outdoor cable with IP68 connector on the instrument side • Other end with blank wires for flexible assembly.			•	•	•	•	•
ACC-PWR3BE	12 V POWER CABLE IP68 - 3 M - BLANK END	3 M connection between instrument and arbitrary 12 V power supply • PUR outdoor cable with IP68 connector on the instrument side • Other end with blank wires for flexible assembly.			•	•	•	•	•
ACC-LAN3	LAN DATA CABLE IP68 - 3 M	3 m LAN cable to connect Airyx instruments to an external PC • PUR outdoor cable with IP68 connector on the instrument side.			•	•	•	•	•
ACC-LANX	LAN DATA CABLE IP68 - CUSTOM LENGTH PUR Outdoor cable CAT 7 Price: 40€ + 7€/m (example price for 10 m)	Custom length LAN cable to connect Airyx instruments to an external PC • PUR outdoor cable with IP68 connector on the instrument side • Flexible length, 40 € + 7 €/m			•	•	•	•	•
ACC-PWR3CAR	12V POWER CABLE FOR CAR CIGARETTE LIGHTER IP68 - 3 m, plus adapter cable to connect 12V buffer battery	3 m power cable for connection of Airyx instruments to a 12 V cigarette lighter in a car • connectable additional 12 V power source (battery) as 12V buffer to avoid power cuts when car power is off • PUR outdoor cable • IP68 connector on instrument side.			•	•	•	•	•
ACC-BAT-50Ah	LIPO BATTERY 12 V/50.4 Ah IP67 - PELICASE > Included: 5 A charger > Included 1.5 m power cable for Airyx instrument connection > 3.37 kg > Rugged Peli 1150 case (24 x 19 x 11 cm³)	Battery pack for instrument power supply in remote areas • IP67 • 3.37 kg • Allow -15 h of ICAD operation • 3 IP67 power connectors			•	•	•	•	•

Item#	Description	Comments	Related articles	Image	ICAD (IC) Subtypes				
					Single	Dual	Emission	Long	Outdoor
MAINTENANCE EQUIPMENT AND SPARE PARTS									
SPARE-TSENS-DX	DIGITAL TEMPERATURE SENSOR FOR MONITORING > Digital sensor address selectable = 0, 1, 2, 3	1 x digital ADT temperature sensor for monitoring. Internal used in Airyx instruments • On micro printed circuit board with 30 cm connection ribbon cable • Digital I2C-address is selectable (0, 1, 2 or 3) • Also used in older instruments (instead of [SPARE-TSENS-SPD]) to control spectrometer temperature • Direct connection to internal Airyx controller board.			•	•	•	•	•
SPARE-PCEM1	ICAD / SKYSPEC-COMP EMBEDDED MEASUREMENT PC INCL. 256 GGB > Windows 10 installed and optimised for measurement applications > Installation and configuration of measurement software included > Incl. 4 Gb RAM	Replacement of internal embedded PC (pITX) in Airyx instruments incl. RAM and SSD hard drive			•	•	•	•	•
IC-SPARE-ZERO400	ZERO AIR FILTER SYSTEM - HIGH CAPACITY > For zero point measurement (ICAD) > With 2 filter cartridges: Activated coal + desiccant > High capacity with 400 ml in each cartridge > For external connection				•	•	•	•	•
IC-SPARE-ZERO115	ZERO AIR FILTER SYSTEM - REGULAR CAPACITY > For zero point measurement > With 2 filter cartridges: Activated coal + desiccant > Regular capacity with 115 ml in each cartridge > For external connection	Can directly be attached on the side of the ICAD instrument.			•	•	•	•	•
IC-SPARE-FILT	10X PTFE AEROSOL PORE FILTER	Aerosol pore filter (filter mat only, enclosure with connectors not included) with 5 µm pore size • Used for particle filtering in ICAD inlet • Packages of 10 piece.			•	•	•	•	•
IC-SPARE-PREFILT	10X PTFE AEROSOL DEPTH FILTER For prefiltering in strongly polluted environments.	Aerosol depth filter (filter mat only, enclosure with connectors not included) with 2 µm pore size. Less precise size cut-off, but high capacity • Ideal for prefiltering to enhance lifetime of the regular 5 µm filter • Used for particle filtering in ICAD inlet • Packages of 10 pieces.			•	•	•	•	•
IC-SPARE-FILTH	PFA AEROSOL FILTER HOLDER > To hold aerosol filters > For 1/4 inch tubes > Incl. adapter and tubes for 6mm > Incl. keys to open the filter holder	Made from chemical inert PFA material. Used in ICAD inlet line.			•	•	•	•	•
IC-SPARE-PUMP-STD	MEMBRANE AIR PUMP - STANDARD > Compatible with any ICAD system > 12V, air flow < 5 l/min, up to 700mbar continuous pressure, power regulated with 0.5 to 12V signal > Prepared cable and connector > Pump rate regulated by ICAD > Lifetime > 10.000h	Lifetime is valid for maximum pump power • Longer lifetime for reduces pump power. In standard ICAD settings a lifetime of ~ 40.000h is expected.			•	•	•	•	•
IC-SPARE-PUMP	MEMBRANE AIR PUMP - FIXED PUMP POWER > Suitable for instruments without pump power regulation > 12V, air flow < 5 l/min, up to 700 mbar continuous pressure > Preset power reduction with resistor to ~2l/min > Pump holder included > Lifetime ~40.000h	Suitable as replacements for older ICAD systems with only 12V power connection (no pump flow regulator). > Picture does not include the additional electronic.			•	•	•	•	•

Item#	Description	Comments	Related articles	Image	ICAD (IC) Subtypes										
					Single	Dual	Emission	Long	Outdoor						
IC-SPARE-O3LAMP	O3 GENERATOR LAMP OF NO CONVERTER > Replacement lamp (mercury) > Including holder and sealing for O3 generator > Lifetime -20.000h	The O3 lamp generates O3 for the NO to NO2 converter needed in the NOx channel. PenRay lamp style. The lamp degrade over the lifetime and a replacement is required to ensure efficient NO to NOx conversion. The lamp is prepared and tested over -10 days for efficient O3 production.													
IC-SPARE-SET-NO2	SPARE PART SET FOR ICAD NO2 1x power supply 12 V, 8 A with configured connector [SPARE-PWR-8A] • 1x high capacity zero air filter cartridge [IC-SPARE-ZERO400] • 1x PTFE aerosol filter holder [IC-SPARE-FILTH] • Aerosol filter set 1x [IC-SPARE-PREFILT] & 1x [IC-SPARE-FILT] (each 10 pieces) • 2x disposable aerosol filter (used on measurement cells) • 1x fan 80 mm [SPARE-FAN80V3] • 2x fan filter 80 mm, washable [SPARE-FANFILT80] • 1x Membrane air pump [IC-SPARE-PUMP-STD] • Zero air particle filter inside ICAD (filter candle) • 2x NO2 Measurement LED	Set with all typical replacement components which degrade or break under normal operation after long operation time (> 2years) due to component lifetime. Include also parts of regular maintenance • Includes desiccant for Zero Air cartridges and aerosol filters.													
IC-SPARE-SET-NOX	SPARE PART SET FOR ICAD NOX 1x power supply 12 V, 8 A with configured connector [SPARE-PWR-8A] • 1x high capacity zero air filter cartridge [IC-SPARE-ZERO400] • 1x PTFE aerosol filter holder [IC-SPARE-FILTH] • Aerosol filter set 1x [IC-SPARE-PREFILT] & 1x [IC-SPARE-FILT] (each 10 pieces) • 4x disposable aerosol filter (used on measurement cells) • 1x fan 80 mm [SPARE-FAN80V3] • 2x fan filter 80 mm, washable [SPARE-FANFILT80] • 1x Membrane air pump [IC-SPARE-PUMP-STD] • Zero air particle filter inside ICAD (filter candle) • 1x O3 generator lamp of NO converter [IC-SPARE-O3LAMP] • 3x Measurement LED	Set with all typical replacement components which degrade or break under normal operation after long operation time (> 2years) due to component lifetime. Include also parts of regular maintenance • Includes desiccant for Zero Air cartridges and aerosol filters.													
IC-SPARE-SET-HONO	SPARE PART SET FOR ICAD HONO 1x power supply 12 V, 8 A with configured connector [SPARE-PWR-8A] • 1x high capacity zero air filter cartridge [IC-SPARE-ZERO400] • 1x aerosol filter housing with tube connectors • Aerosol filter set 1x [IC-SPARE-PREFILT] & 1x [IC-SPARE-FILT] (each 10 pieces) • 4x disposable aerosol filter (used on measurement cells) • 1x fan 80 mm [SPARE-FAN80V3] • 2x fan filter 80 mm, washable [SPARE-FANFILT80] • 1x membrane pump with cable connector • Zero air filter inside ICAD (filter candle) • 2x HONO Measurement LED	Set with all typical replacement components which degrade or break under normal operation after long operation time (> 2years) due to component lifetime. Include also parts of regular maintenance • Includes desiccant for Zero Air cartridges and aerosol filters.													
IC-MAINT-SET	ICAD BASIC MAINTENANCE SET 1x silica desiccant 0.9 kg [SPARE-SILICA] • Aerosol filter set 1x [IC-SPARE-PREFILT] & 1x [IC-SPARE-FILT]	Parts for regular maintenance • Includes desiccant for Zero Air cartridges and aerosol filters.													
IC-MCU-V1.4	ICAD MCU (MASTER CONTROL UNIT) BOARD V1.4 > Replacement with instrument specific firmware	Spare main instrument control board with temperature stabilisation controller and instrument firmware for your specific ICAD / SkySpec instrument. This board is only as replacement in Airyx instruments. The new v1.4 is compatible with most older versions. Please contact Airyx to clear compatibility.													
SPARE-PELTIER-V2	PELTIER COOLER AIRYX	Peltier cooler in Airyx instruments with cooling function. Peltier regulate the heating / cooling of the instrument between the heat sinks. Silicon sealed version													
SPARE-FAN80V3	HEAT EXCHANGER FAN - 80 MM Long life and high power	Fan fitting to Airyx temperature stabilisation heat exchangers.													
SPARE-FANFILT80	FAN FILTER - 80 MM - WASHABLE	Fan filter fitting to Airyx temperature stabilisation heat exchangers.													
SPARE-SILICA	SILICA DESICCANT - 0.9 KG (1L)	0.9 kg silica desiccant with colour indicator (orange -> greenish) to be used in Airyx instruments and zero air filter systems (ICAD instruments).													

Item#	Description	Comments	Related articles	Image	ICAD (IC) Subtypes				
					Single	Dual	Emission	Long	Outdoor
SERVICES									
IC-SERV-EXT	POST WARRANTY MAINTENANCE SERVICE EXTENSION - ICAD Optional extension package • Starts after expiring of warranty • Price per year and ICAD system • Consumption parts like filters, pumps and lamps not included.	This is analogue to a longer warranty for this instrument. This does not include shipping costs if required. Required to be ordered with a new instrument.			•	•	•	•	•
IC-SERV-NO2-STD	ICAD NO2 SERVICE PACKAGE STANDARD Recommended after one year for NO2 instruments Replacements: Sample filter • Desiccant of zero air filter Services: Check of all system parameters • Light path calibration (NO2 mode) • Internal PC clean-up • Backup data on ICAD to USB stick • Update of security relevant software	Service package includes the check and maintenance of the instrument at the laboratories of Airyx company.			•			•	•
IC-SERV-NO2-EXT	ICAD NO2 SERVICE PACKAGE EXTENDED Recommended every two years for NO2 instruments Replacements: Sample filter • Desiccant and activated coal of zero air filter • Pump replacement • Zero air particle filter inside ICAD • Filter on the measurement cell (if replacement required) Services: Instrument check of all system parameters • Cleaning of optical measurement cell and high reflective mirrors (if required) • Light path calibration (NO2 mode) • Internal PC clean-up • Backup data on ICAD to USB stick • Update of security relevant software	Service package includes the check and maintenance of the instrument at the laboratories of Airyx company.			•	•		•	•
IC-SERV-NOX-STD	ICAD NOX SERVICE PACKAGE STANDARD Recommended after one year for NOx instruments Replacements: PTFE Aerosol Filter • Desiccant of zero air filter system Services: Check of all system parameters • Light path calibration (NO2 mode) • Calibration of NO to NO2 converter (with NO calibration gas) • Internal PC clean-up • Backup data on ICAD to USB stick • Update of security relevant software	Service package includes the check and maintenance of the instrument at the laboratories of Airyx company.					•	•	•
IC-SERV-NOX-EXT	ICAD NOX SERVICE PACKAGE EXTENDED Recommended every two years for NOx instruments Replacements: PTFE Aerosol Filter • Desiccant and activated coal of zero air filter system • Membrane air pump • O3 generator lamp of NO converter • Zero air filter inside ICAD • Filter on the measurement cell (if replacement required) Services: Check of all system parameters • Cleaning of optical measurement cell and high reflective mirrors (if required) • Light path calibration (NO2 mode) • Calibration of NO to NO2 converter (with NO calibration gas) • Internal PC clean-up • Backup data on ICAD to USB stick • Update of security relevant software	Service package includes the check and maintenance of the instrument at the laboratories of Airyx company.					•	•	•
IC-SERV-HONO-STD	ICAD HONO SERVICE PACKAGE STANDARD Recommended after one year for HONO instruments Replacements: Sample filter • Desiccant of zero air filter Services: Check of all system parameters • Light path calibration • Internal PC clean-up • Backup data on ICAD to USB stick • Update of security relevant software	Service package includes the check and maintenance of the instrument at the laboratories of Airyx company.			•			•	
IC-SERV-HONO-EXT	ICAD HONO SERVICE PACKAGE EXTENDED Recommended every two years for HONO instruments Replacements: Sample filter • Desiccant and activated coal of zero air filter • Pump replacement • Zero air particle filter inside ICAD • Filter on the measurement cell (if replacement required) • Measurement UV LED's (if required) Services: Instrument check of all system parameters • Cleaning of optical measurement cell and high reflective mirrors (if required) • Light path calibration • Internal PC clean-up • Backup data on ICAD to USB stick • Update of security relevant software	Service package includes the check and maintenance of the instrument at the laboratories of Airyx company.			•			•	

Product overview of Airyx GmbH

Item#	Description	Comments	Related articles	Image	ICAD (IC) Subtypes				
					Single	Dual	Emission	Long	Outdoor
RENTAL / TRAINING / MEASUREMENT SERVICE									
	Airyx provide a large range of Measurement services, instrument rental and training. Please contact Airyx for more details.				•	•	•	•	•
SHIPPING / PACKING CUSTOMS (REGULAR)									
SHIP-D-S2	SHIPPING TO GERMANY - SIZE 2	5 kg - 20 kg			•	•	•		•
SHIP-D-S3	SHIPPING TO GERMANY - SIZE 3	> 20 kg						•	
SHIP-EU-S2	SHIPPING TO EU COUNTRIES - SIZE 2	5 kg - 20 kg EU countries excl. Germany			•	•	•		•
SHIP-EU-S3	SHIPPING TO EU COUNTRIES - SIZE 3	> 20 kg EU countries excl. Germany						•	
SHIP-W1-S2	SHIPPING TO WORLD 1 DISTANCE COUNTRIES - SIZE 2	5 kg - 20 kg incl. export customs, Europe excl. EU			•	•	•		•
SHIP-W1-S3	SHIPPING TO WORLD 1 DISTANCE COUNTRIES - SIZE 3	> 20 kg incl. export customs, Europe excl. EU						•	
SHIP-W2-S2	SHIPPING TO WORLD 2 DISTANCE COUNTRIES - SIZE 2	5 kg - 20 kg incl. export customs, non-Europe countries			•	•	•		•
SHIP-W2-S3	SHIPPING TO WORLD 2 DISTANCE COUNTRIES - SIZE 3	> 20 kg incl. export customs, non-Europe countries						•	