

INDEX GUIDELINE

Solactive Global Macro AI Rotator GTR Index

Version 1.0

24 January 2023



TABLE OF CONTENTS

Introduction	3
1. Index Specifications	4
1.1. Scope of the Index	4
1.2. Identifiers and Publication	4
1.3. Initial Level of the Index	4
1.4. Prices and calculation frequency	5
1.5. Licensing.....	5
2. Index Selection	6
2.1. Index Universe.....	6
2.2. Selection of the Index Components	7
2.3. Weighting of the Index Components.....	7
2.4. Disruption of the Selection Process.....	8
3. Rebalance	9
3.1. Ordinary Rebalance	9
3.2. Extraordinary Rebalance	9
4. Calculation of the Index	10
4.1. Index formula	10
4.2. Accuracy	10
4.3. Adjustments.....	10
4.4. Corporate actions	11
4.5. Recalculation.....	12
4.6. Market Disruption	12
5. Miscellaneous	13
5.1. Discretion	13
5.2. Methodology Review.....	13
5.3. Changes in calculation method.....	13
5.4. Termination	14
5.5. Oversight	14
6. Definitions.....	15
7. Annex.....	17
8. History of Index Changes	21
Contact.....	22



INTRODUCTION

This document (the "**GUIDELINE**") is to be used as a guideline with regard to the composition, calculation and maintenance of the Solactive Global Macro AI Rotator GTR Index (the "**INDEX**"). Any amendments to the rules made to the **GUIDELINE** are approved by the **OVERSIGHT COMMITTEE** specified in Section 5.5. The **INDEX** is owned, calculated, administered and published by Solactive AG ("**SOLACTIVE**") assuming the role as administrator (the "**INDEX ADMINISTRATOR**") under the Regulation (EU) 2016/1011 (the "**BENCHMARK REGULATION**" or "**BMR**"). The name "Solactive" is trademarked.

The text uses defined terms which are formatted with "SMALL CAPS". Such Terms shall have the meaning assigned to them as specified in Section 6 (Definitions).

The **GUIDELINE** and the policies and methodology documents referenced herein contain the underlying principles and rules regarding the structure and operation of the **INDEX**. The **INDEX ADMINISTRATOR** does not offer any explicit or tacit guarantee or assurance, neither pertaining to the results from the use of the **INDEX** nor the level of the **INDEX** at any certain point in time nor in any other respect. The **INDEX ADMINISTRATOR** strives to the best of its ability to ensure the correctness of the calculation. There is no obligation for the **INDEX ADMINISTRATOR** – irrespective of possible obligations to issuers – to advise third parties, including investors and/or financial intermediaries, of any errors in the **INDEX**. The publication of the **INDEX** by the **INDEX ADMINISTRATOR** does not constitute a recommendation for capital investment and does not contain any assurance or opinion of the **INDEX ADMINISTRATOR** regarding a possible investment in a financial instrument based on this **INDEX**.



1. INDEX SPECIFICATIONS

1.1. SCOPE OF THE INDEX

Category	Description
Asset Class	Equity (ETFs)
Strategy	The Index tracks the price movements of a portfolio of Exchange Traded Funds selected and weighted based on the output of the AI based Selection Algorithm powered by Boosted.ai.
Rebalancing Fee	0.02%
Rebalancing Frequency	Weekly

1.2. IDENTIFIERS AND PUBLICATION

The INDEX is published under the following identifiers:

Name	ISIN	Currency	Type	RIC	BBG ticker
Solactive Global Macro AI Rotator GTR Index	DE000SLOG177	USD	GTR	.SOAIGMRT	SOAIGMRT

*GTR means that the Index is calculated as gross total return index as described in the Equity Index Methodology, which is available on the SOLACTIVE website: <https://www.solactive.com/documents/equity-index-methodology/>

The INDEX is published on the website of the INDEX ADMINISTRATOR (www.solactive.com) and is, in addition, available via the price marketing services of Boerse Stuttgart GmbH and may be distributed to all of its affiliated vendors. Each vendor decides on an individual basis as to whether it will distribute or display the INDEX via its information systems.

Any publication in relation to the INDEX (e.g. notices, amendments to the GUIDELINE) will be available at the website of the INDEX ADMINISTRATOR: <https://www.solactive.com/news/announcements/>.

1.3. INITIAL LEVEL OF THE INDEX

The initial level of the INDEX on 05/01/2004, the START DATE, is 1000. Historical values from 04/10/2022, the LIVE DATE, will be recorded in accordance with Article 8 of the BMR. Levels of the INDEX published for the period prior to the LIVE DATE have been back-tested.



1.4. PRICES AND CALCULATION FREQUENCY

The intraday level of the INDEX is calculated on each CALCULATION DAY from 9:00 a.m. to 10:50 p.m. CET based on the TRADING PRICES on the EXCHANGES on which the INDEX COMPONENTS are listed. If there is no TRADING PRICE for an INDEX COMPONENT in respect of a CALCULATION DAY, the later of: (i) the most recent CLOSING PRICE in respect of such INDEX COMPONENT or (ii) the last available TRADING PRICE in respect of such INDEX COMPONENT and the TRADING DAY immediately preceding such CALCULATION DAY is used in the calculation.

In addition to the intraday calculation, a closing level of the INDEX for each CALCULATION DAY is also calculated. This closing level is based on the CLOSING PRICES for the INDEX COMPONENTS on the respective EXCHANGES on which the INDEX COMPONENTS are listed. If there is no CLOSING PRICE for an INDEX COMPONENT in respect of a CALCULATION DAY, the last price available in respect of such INDEX COMPONENT is used for such closing level calculation.

1.5. LICENSING

Licenses to use the INDEX as the underlying value for financial instruments, investment funds and financial contracts may be issued to stock exchanges, banks, financial services providers and investment houses by SOLACTIVE.



2. INDEX SELECTION

On each SELECTION DAY, the INDEX ADMINISTRATOR will revise the composition of the INDEX.

Based on this INDEX UNIVERSE, the new composition of the INDEX will be determined by applying the rules outlined in Section 2.2.

Each INDEX COMPONENT will be assigned a weight as described in Section 2.3.

2.1. INDEX UNIVERSE

The INDEX UNIVERSE consists of the 6 Exchange Traded Funds (the "ASSETS") set forth in the Table of Assets below:

Table of Assets

Asset	Bloomberg Code	Exchange*	Currency
SPDR® S&P 500® ETF	SPY	NYSE Arca	USD
iShares® Russell 2000 ETF	IWM	NYSE Arca	USD
Invesco QQQ Trust SM , Series 1	QQQ	Nasdaq GM	USD
iShares® MSCI EAFE ETF	EFA	NYSE Arca	USD
SPDR® Gold Shares	GLD	NYSE Arca	USD
iShares MSCI Emerging Markets ETF	EEM	NYSE Arca	USD

* If the Calculation Agent determines that an Asset has been delisted from its respective Exchange as listed in the table above, the replacement Exchange in respect of such Asset shall be the exchange of the primary listing of such Asset as determined by the Calculation Agent.



2.2. SELECTION OF THE INDEX COMPONENTS

Based on the INDEX UNIVERSE, the initial composition of the INDEX as well as any selection for an ordinary rebalance is determined on the SELECTION DAY in accordance with the following rules (the “**INDEX COMPONENT REQUIREMENTS**”):

The Index dynamically allocates to the ASSETS based on the data points provided by the DATA PROVIDER.

On each SELECTION DAY, the model aims to select and assign weights to each ASSET based on the ranking obtained after running the BATTLE ROYALE NOISE REDUCTION (“BRNR”) model.

The model specifications are the following:

- > Model type: Battle Royale Noise Reduction
- > Model objective: Maximize Alpha with respect to the Equally Weighted Basket of Assets
- > Investment horizon: Set to 21 days.
- > Back test range: 8 Years
- > Training Frequency: Quarterly
- > Input variables – as described in Section 7 hereto.

The goal of BRNR is to compute scores for each ASSET within the INDEX UNIVERSE resulting in an AI-based ranking. In BRNR, every ASSET is compared to every other ASSET in a “battle royale” relative to the model objective specified above. ASSETS are ranked by the number of individual battles they win relative to the model objective.

The selection of the INDEX COMPONENTS is fully rule-based, and the INDEX ADMINISTRATOR cannot make any discretionary decision.

2.3. WEIGHTING OF THE INDEX COMPONENTS

On each SELECTION DAY, based on the BRNR model, the INDEX ADMINISTRATOR assigns weights (the “SELECTION WEIGHTS”) of 40%, 30% and 30% for the ASSETS WITH the highest, second highest and third highest assigned score from BRNR and 0% for the remaining ASSETS.



2.4. DISRUPTION OF THE SELECTION PROCESS

The DATA PROVIDER will run the BRNR model after the CLOSE OF BUSINESS of the BUSINESS DAY immediately preceding the SELECTION DAY and send the score of each ASSET to the INDEX ADMINISTRATOR before 11a.m Frankfurt time on the relevant SELECTION DAY.

In the event that the DATA PROVIDER is unable to compute, or communicate to the INDEX ADMINISTRATOR the selection of INDEX COMPONENTS and their SELECTION WEIGHTS in respect of a SELECTION DAY (a "DATA PROVIDER DISRUPTION EVENT"), the Index as of such SELECTION DAY shall be composed of the same INDEX COMPONENTS with their same SELECTION WEIGHTS as at the first SELECTION DAY immediately preceding such SELECTION DAY on which a DATA PROVIDER DISRUPTION EVENT had not occurred, *provided, however, that* if a DATA PROVIDER DISRUPTION EVENT has occurred on at least four consecutive SELECTION DAYS immediately preceding such SELECTION DAY, the INDEX as of such SELECTION DAY shall be composed of all six ASSETS each with an equal SELECTION WEIGHT.



3. REBALANCE

3.1. ORDINARY REBALANCE

In order to reflect the new selection of the INDEX COMPONENTS determined on the SELECTION DAY (in accordance with Section 2.1 and 2.2) the INDEX is adjusted on the REBALANCE DAY after CLOSE OF BUSINESS.

This is carried out by implementing the SELECTION WEIGHTS as determined on the SELECTION DAY.

For more information on the rebalance procedure please refer to the Equity Index Methodology, which is incorporated by reference and available on the Solactive website: <https://www.solactive.com/documents/equity-index-methodology/>.

On each REBALANCE DAY there is a 0.02% rebalancing fee subtracted based on the total absolute change in the SELECTION WEIGHTS of each ASSET entering or leaving the INDEX. The rebalancing fee will be applied in compliance with the Solactive Equity Index Methodology, which is incorporated by reference and available on the SOLACTIVE website: <https://www.solactive.com/documents/equity-index-methodology/>.

The INDEX ADMINISTRATOR will publish any changes made to the INDEX COMPONENTS with sufficient notice before the REBALANCE DAY on the SOLACTIVE website under the section "Announcement", which is available at <https://www.solactive.com/news/announcements/>.

3.2. EXTRAORDINARY REBALANCE

The INDEX is not rebalanced extraordinarily.



4. CALCULATION OF THE INDEX

4.1. INDEX FORMULA

The INDEX is calculated as a gross total return Index.

The calculation of the level of the INDEX is performed by the INDEX ADMINISTRATOR according to the Equity Index Methodology, which is available on the SOLACTIVE website: <https://www.solactive.com/documents/equity-index-methodology/>. The divisor index formula stipulates that the level of the INDEX changes based on the change of the prices of its INDEX COMPONENTS taking into account the relevant SELECTION WEIGHTS of the INDEX COMPONENTS and any currency conversion in case the price of an INDEX COMPONENT is quoted in a currency other than the INDEX CURRENCY.

Any dividends or other distributions are reinvested across the entire basket of INDEX COMPONENTS by means of a divisor at the opening of the effective date (the so-called ex-date) of the payment of such dividend or other distribution.

A more detailed description of the mechanics of the index calculation formula can be found in the Equity Index Methodology under Section 1.2.

4.2. ACCURACY

The level of the INDEX will be rounded to 2 decimal places. Divisors will be rounded to six decimal places. Trading Prices and foreign exchange rates will be rounded to six decimal places.

4.3. ADJUSTMENTS

Under certain circumstances, an adjustment of the INDEX may be necessary between two regular REBALANCE DAYS. Such adjustment has to be made if a corporate action (as specified in Section 4.4 below) in relation of an INDEX COMPONENT occurs. Such adjustment may have to be done in relation to an INDEX COMPONENT and/or may also affect the number of INDEX COMPONENTS and/or the weighting of certain INDEX COMPONENTS and will be made in compliance with the Solactive Equity Index Methodology, which is incorporated by reference and available on the SOLACTIVE website: <https://www.solactive.com/documents/equity-index-methodology/>.

The INDEX ADMINISTRATOR will announce the INDEX adjustment giving a notice period of at least two TRADING DAYS (with respect to the affected INDEX COMPONENT) on the SOLACTIVE website under the Section "Announcements", which is available at <https://www.solactive.com/news/announcements/>. The INDEX adjustments will be implemented on the effective day specified in the respective announcement.



4.4. CORPORATE ACTIONS

As part of the INDEX maintenance the INDEX ADMINISTRATOR will consider various events – also referred to as corporate actions – which result in an adjustment to the INDEX between two regular REBALANCE DAYS. Such events have a material impact on the price, weighting or overall integrity of an INDEX COMPONENT. Therefore, they need to be accounted for in the calculation of the INDEX. Corporate actions will be implemented from the cum-day to the ex-day of the corporate action, so that the adjustment to the INDEX coincides with the occurrence of the price effect of the respective corporate action.

Adjustments to the INDEX to account for corporate actions will be made by the INDEX ADMINISTRATOR in compliance with the Equity Index Methodology, which is available on the SOLACTIVE website: <https://www.solactive.com/documents/equity-index-methodology/>. This document contains for each corporate action a brief definition and specifies the relevant adjustment to the INDEX variables.

While SOLACTIVE aims at creating and maintaining its methodology for treatment of corporate actions as generic and transparent as possible and in line with regulatory requirements, the INDEX ADMINISTRATOR retains the right in accordance with the Equity Index Methodology to deviate from these standard procedures in case of any unusual or complex corporate action or if such a deviation is made to preserve the comparability and representativeness of the INDEX over time.

The INDEX ADMINISTRATOR considers following, but not conclusive, list of corporate actions as relevant for INDEX maintenance:

- > Cash distributions (e.g. payment of a dividend)
- > Stock distributions (e.g. payment of a dividend in form of additional shares)
- > Stock distributions of another company (e.g. payment of a dividend in form of additional shares of another company (e.g. of a subsidiary))
- > Share splits (company's present shares are divided and therefore multiplied by a given factor)
- > Reverse splits (company's present shares are effectively merged)
- > Capital increases (such as issuing additional shares)
- > Share repurchases (a company offer its shareholders the option to sell their shares to a fixed price)
- > Spin-offs (the company splits its business activities into two or more entities and distributes new equity shares in the created entities to the shareholders of the former entity)
- > Mergers & Acquisitions (transaction in which the ownership of a company (or other business organizations) are transferred or consolidated with other entities, e.g. fusion of two or more separate companies into one entity)
- > Delistings (company's shares are no longer publicly traded at a stock exchange)
- > Nationalization of a company (effective control of a legal entity is taken over by a state)
- > Insolvency



4.5. RECALCULATION

The INDEX ADMINISTRATOR makes the greatest possible efforts to accurately calculate and maintain the INDEX. However, errors in the determination process may occur from time to time for a variety of reasons (internal or external) and therefore, cannot be completely ruled out in respect of the INDEX. The INDEX ADMINISTRATOR endeavors to correct all errors that have been identified within a reasonable period of time. The understanding of “a reasonable period of time” as well as the general measures to be taken are generally depending on the underlying and is specified in the Solactive Correction Policy, which is incorporated by reference and available on the SOLACTIVE website: <https://www.solactive.com/documents/correction-policy>.

4.6. MARKET DISRUPTION

In periods of market stress, the INDEX ADMINISTRATOR shall calculate the INDEX following predefined and exhaustive arrangements as described in the Solactive Disruption Policy, which is incorporated by reference and available on the SOLACTIVE website: <https://www.solactive.com/documents/disruption-policy/>. Market stress can arise due to a variety of reasons, but generally results in inaccurate or delayed prices for one or more INDEX COMPONENTS. The determination of the INDEX may be limited or impaired at times of illiquid or fragmented markets and market stress.



5. MISCELLANEOUS

5.1. DISCRETION

Any discretion which may need to be exercised in relation to the determination of the INDEX (for example the determination of the INDEX UNIVERSE (if applicable), the selection of the INDEX COMPONENTS (if applicable) or any other relevant decisions in relation to the INDEX) shall be made in accordance with strict rules regarding the exercise of discretion or expert judgement by the INDEX ADMINISTRATOR.

5.2. METHODOLOGY REVIEW

The methodology of the INDEX is subject to regular review, at least annually. In cases where a need of a change of the methodology has been identified within such review (e.g. if the underlying market or economic reality has changed since the launch of the INDEX, i.e. if the present methodology is based on obsolete assumptions and factors and no longer reflects the reality as accurately, reliably and appropriately as before), such change will be made in accordance with the Solactive Methodology Policy, which is incorporated by reference and available on the SOLACTIVE website: <https://www.solactive.com/documents/methodology-policy/>.

Any such change in the methodology will be announced on the SOLACTIVE website under the Section "Announcement" which is available at <https://www.solactive.com/news/announcements/>. The date of the last amendment of this INDEX is contained in Section 8 of this GUIDELINE.

5.3. CHANGES IN CALCULATION METHOD

The application by the INDEX ADMINISTRATOR of the method described in this document is final and binding. The INDEX ADMINISTRATOR shall apply the method described above for the composition and calculation of the INDEX. However, it cannot be excluded that the market environment, supervisory, legal and financial or tax reasons may require changes to be made to this method. The INDEX ADMINISTRATOR may also make changes to the terms and conditions of the INDEX and the method applied to calculate the INDEX that it deems to be necessary and desirable in order to prevent obvious or demonstrable error or to remedy, correct or supplement incorrect terms and conditions. Any such changes or modifications made in respect of the INDEX in accordance with this Section 5.3 shall be made by the INDEX ADMINISTRATOR in accordance with its policies. The INDEX ADMINISTRATOR is not obliged to provide information on any such modifications or changes. Despite any modifications and changes, the INDEX ADMINISTRATOR will take the appropriate steps to ensure a calculation method is applied that is consistent with the method described above.



5.4. TERMINATION

The INDEX ADMINISTRATOR shall make the greatest possible efforts to ensure the resilience and continued integrity of the INDEX over time. Where necessary, the INDEX ADMINISTRATOR shall follow a clearly defined and transparent procedure to adapt the INDEX methodology to account for changing underlying markets (see Section 5.2 "*Methodology Review*") in order to maintain continued reliability and comparability of the indices. Nevertheless, if no other options are available the orderly cessation of the INDEX may be indicated. This is usually the case when the underlying market or economic reality, which the INDEX is set to measure or to reflect, changes substantially and in a way not foreseeable at the time of inception of the INDEX, the INDEX methodology, and particularly the criteria for selecting INDEX COMPONENTS, can no longer be applied coherently or the INDEX is no longer used as the underlying value for financial instruments, investment funds and financial contracts.

The INDEX ADMINISTRATOR has established and maintains clear guidelines on how to identify situations in which the cessation of an index is unavoidable, how stakeholders are to be informed and consulted and the procedures to be followed for a termination or the transition to an alternative index. Details are specified in the Solactive Termination Policy, which is incorporated by reference and available on the SOLACTIVE website: <https://www.solactive.com/documents/termination-policy/>.

5.5. OVERSIGHT

An oversight committee composed of staff from the INDEX ADMINISTRATOR and its subsidiaries (the "**OVERSIGHT COMMITTEE**") is responsible for decisions regarding any amendments to the rules of the INDEX. Any such amendment, which may result in an amendment of the GUIDELINE, must be submitted to the OVERSIGHT COMMITTEE for prior approval and will be made in compliance with the Methodology Policy, which is available on the SOLACTIVE website: <https://www.solactive.com/documents/methodology-policy/>.



6. DEFINITIONS

“**ASSETS**” shall have the meaning as defined in Section 2.

“**BENCHMARK REGULATION**” shall have the meaning as defined in Section “Introduction”.

“**BMR**” shall have the meaning as defined in Section “Introduction”.

“**BUSINESS DAY**” is a day on which New York Stock Exchange (NYSE) and NASDAQ is open for general business.

“**CALCULATION DAY**” means a Business Day.

The “**CLOSING PRICE**” is, in respect of an INDEX COMPONENT and a TRADING DAY is a security's final regular-hours TRADING PRICE published by the EXCHANGE and determined in accordance with the EXCHANGE regulations. If the EXCHANGE has no or has not published a CLOSING PRICE in accordance with the EXCHANGE rules for an INDEX COMPONENT, the last TRADING PRICE will be used.

“**DATA PROVIDER**” is Boosted.ai, for more information please visit <https://knowledge-base.boosted.ai/en/knowledge>.

“**EXCHANGE**” is, in respect to the INDEX and each INDEX COMPONENT, the respective exchange where such INDEX COMPONENT has its listing as determined in accordance with the rules in Section 2.

“**GUIDELINE**” shall have the meaning as defined in Section “Introduction”.

“**INDEX**” shall have the meaning as defined in Section “Introduction”.

“**INDEX ADMINISTRATOR**” shall have the meaning as defined in Section “Introduction”.

“**INDEX COMPONENT**” is, in respect of each CALCULATION DAY falling in the period from (and including) a REBALANCE DAY to (but excluding) the next REBALANCE DAY, each ASSET with a SELECTION WEIGHT of more than zero in respect of the SELECTION DAY immediately preceding the REBALANCE DAY on which such period starts on (and includes).

“**INDEX COMPONENT REQUIREMENTS**” shall have the meaning as defined in Section 2.2.

“**INDEX CURRENCY**” is the currency specified in the column “Currency” in the table in Section 1.2.

“**INDEX UNIVERSE REQUIREMENTS**” shall have the meaning as defined in Section 2.1.

“**INDEX UNIVERSE**” are the ASSETS set forth in the Table of Assets in Section 2.1.

“**LIVE DATE**” shall have the meaning as defined in Section 1.3.

“**OVERSIGHT COMMITTEE**” shall have the meaning as defined in Section 5.5.

“**REBALANCE DAY**” is every Wednesday. If that day is not a BUSINESS DAY the REBALANCE DAY will be the immediately following BUSINESS DAY.

“**SELECTION DAY**” is the first BUSINESS DAY immediately preceding the scheduled REBALANCE DAY.

“**SOLACTIVE**” shall have the meaning as defined in Section “Introduction”.



“START DATE” shall have the meaning as defined in Section 1.3.

“TRADING DAY” is with respect to an INDEX COMPONENT included in the INDEX at the REBALANCE DAY and every INDEX COMPONENT included in the INDEX at the CALCULATION DAY immediately following the REBALANCE DAY (for clarification: this provision is intended to capture the TRADING DAYS for the ASSETS to be included in the INDEX as new INDEX COMPONENTS with close of trading on the relevant EXCHANGE on the REBALANCE DAY), a day on which the relevant EXCHANGE is open for trading (or a day that would have been such a day if a market disruption had not occurred), excluding days on which trading may be ceased prior to the scheduled EXCHANGE closing time and days on which the EXCHANGE is open for a scheduled shortened period. The INDEX ADMINISTRATOR is ultimately responsible as to whether a certain day is a TRADING DAY.

The **“TRADING PRICE”** is, in respect of an INDEX COMPONENT, a TRADING DAY and a relevant time, the published price at which the INDEX COMPONENT was traded on the respective EXCHANGE at such relevant time on such TRADING DAY.



7. ANNEX

Table 1. Input Data into the selection model

Name	Property
10-Year Breakeven Inflation Rate (Daily)	Actual Value
10-Year Treasury Constant Maturity Minus 2-Year Treasury Constant Maturity (Daily)	Actual Value
10-Year Treasury Constant Maturity Minus 3-Month Treasury Constant Maturity (Daily)	Actual Value
10-Year Treasury Constant Maturity Rate (Daily)	Actual Value
5-Year Breakeven Inflation Rate (Daily)	Actual Value
5-Year Treasury Inflation-Indexed Security, Constant Maturity (Daily)	Actual Value
5-Year, 5-Year Forward Inflation Expectation Rate (Daily)	Actual Value
Alpha	21 Days (Goal Benchmark)
Beta	21 Days (Goal Benchmark)
Book Value / Share (LTM)	Last 1 year (Previous 4 quarters)
CBOE Equity VIX on Goldman Sachs (Daily, Close)	Actual Value
CBOE Gold ETF Volatility Index (Daily, Close)	Actual Value
CBOE Gold Miners ETF Volatility Index (Daily, Close)	Actual Value
Close Price	1 Month % change
Consumer Price Index - All Urban Consumers - Electricity (Monthly)	Actual Value
Consumer Price Index for All Urban Consumers: All Items (Monthly)	Actual Value
Consumer Price Index for All Urban Consumers: All Items (Monthly)	3 period % change
Consumer Price Index for All Urban Consumers: All Items (Monthly)	12 period % change
Crude Oil Prices: Brent - Europe (Daily)	Actual Value
EBIT	Last 1 year (Previous 4 quarters)



EBITDA (LTM)	Last 1 year (Previous 4 quarters)
Exponential Moving Average	Close 10 Days Goal Benchmark
Exponential Moving Average	Close 21 Days Goal Benchmark
Exponential Moving Average	Close 252 Days Goal Benchmark
Gold Fixing Price 10:30 A.M. (London time) in London Bullion Market, based in British Pounds (Daily)	Actual Value
Long-term Investments	Last 1 year (Previous 4 quarters)
M2 Money Stock (Weekly, Ending Monday)	Actual Value
Net Income - (IS) (LTM)	Last 1 year (Previous 4 quarters)
Net Working Capital	Last 1 year (Previous 4 quarters)
Normalized Basic EPS (LTM)	Last 1 year (Previous 4 quarters)
Producer Price Index for All Commodities (Monthly)	Actual Value
Relative Strength Index	Close 21 Days Goal Benchmark
Revenue Per Share (LTM)	Last 1 year (Previous 4 quarters)
Standard Deviation	Close 21 Days Goal Benchmark
Stochastic Oscillator	Close 21 Days Goal Benchmark
Tangible Book Value	Last 1 year (Previous 4 quarters)
Total Assets	Last 1 year (Previous 4 quarters)
Total Current Assets	Last 1 year (Previous 4 quarters)
Total Current Liabilities	Last 1 year (Previous 4 quarters)
Total Equity	Last 1 year (Previous 4 quarters)
Total Operating Expenses	Last 1 year (Previous 4 quarters)
Total Revenues	Last 1 year (Previous 4 quarters)
Total Revenues (LTM)	Last 1 year (Previous 4 quarters)
Treasury Inflation-Indexed Long-Term Average Yield (Daily)	Actual Value



US Regular Conventional Gas Price (Monthly)	Actual Value
Velocity of M2 Money Stock (Quarterly)	Actual Value
Volatility	Close 21 Days Goal Benchmark
12M - 1M Price Momentum	Actual Value
60M CAPM Beta	Actual Value
9 Month Price Momentum	Actual Value
Accrual Ratio - Cash Flows	Actual Value
Adjusted Interest Coverage Ratio	Actual Value
Assets to Price Ratio	Actual Value
Capital Efficiency	Actual Value
Cash and Equivalents to EV Ratio	Actual Value
Cash and Equivalents to Price	Actual Value
Cash and Equivalents to Total Assets	Actual Value
Current Ratio	Actual Value
EBIT Margin	Actual Value
Financial Leverage (Equity Multiplier)	Actual Value
Net Current Assets to Price Ratio	Actual Value
Operating Earnings to Price Ratio	Actual Value
Operating Margin	Actual Value
Pretax Income to Price	Actual Value
Price to Earnings	Actual Value
Quick Ratio	Actual Value
Return on Assets	Actual Value
Return on Equity	Actual Value
Return on Invested Capital	Actual Value



SG&A to Sales	Actual Value
Sales to EV Ratio	Actual Value
Sales to Price Ratio	Actual Value
Working Capital to Current Assets	Actual Value
Working Capital to Sales	Actual Value
Working Capital to Total Assets	Actual Value



8. HISTORY OF INDEX CHANGES

Version	Date	Description
1.0	09 November 2022	Index Guideline creation (<i>initial version</i>)

CONTACT

Solactive AG
German Index Engineering
Platz der Einheit 1
60327 Frankfurt am Main
Germany

Tel.: +49 (0) 69 719 160 00

Fax: +49 (0) 69 719 160 25

Email: info@solactive.com

Website: www.solactive.com

© Solactive AG