

PRODUCT GUIDE

Signal Telegram Relay

Free MT5 EA That Relays Indicator Signals to Telegram

A free MT5 EA that forwards every indicator signal to Telegram — Entry, SL, all TP levels with R:R. Setup guide and a detailed explanation of every input.

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TL;DR

Signal Telegram Relay is a **free, read-only (no trading)** Expert Advisor (EA) for MetaTrader 5. It listens to the signals your indicator emits (across all symbols and timeframes) and pushes a tidy message to Telegram: **direction, Entry, SL, all TP levels with R:R, and the recommended TP**. Five-minute setup, zero account risk, signals anywhere on your phone.

Table of Contents

1. What is Signal Telegram Relay?
2. Why use it? (Benefits)
3. What does the Telegram message look like?
4. Full feature list — explained in detail
5. Step-by-step installation
6. Connecting the EA to the indicator (in detail)
7. Detailed explanation of EVERY EA input
8. Troubleshooting
9. Frequently Asked Questions (FAQ)
10. Get the free EA

1. What is Signal Telegram Relay?

Signal Telegram Relay is a **signal-relay EA**. Its single job: **read the signals** the author's indicator emits on MetaTrader 5, then **forward** them to a Telegram channel/group/chat as easy-to-read messages.

The core points to remember:

- **Read-only — never trades.** The EA places no orders, has no trading magic number, and never touches your SL/TP. It is completely safe for the account: if it fails, your trading account is unaffected.
- **It is an “alert radar.”** The indicator emits signals for **many symbols × many timeframes** at once (via the MTF scan). This EA scans **all** the published cells, so you receive signals for the whole product “basket,” not just the open chart.

- **Auto-links to the indicator.** You only enter the **Signal ID** (the indicator's Signal ID number); the EA finds the matching indicator and derives the data “prefix” itself — no need to type any prefix string.
- **Free, with a shared activation key.** The EA uses one shared activation key for everyone and **only forwards signals from indicators released by the author** (brand-lock mechanism). It is a companion freebie, not sold separately.

The EA runs in **live/forward** mode (a real or demo account running live). It **disables itself in the Strategy Tester** because WebRequest and cross-process global variables are meaningless in a backtest.

2. Why use it? (Benefits)

Problem without a relay	How Signal Telegram Relay solves it
Glued to the MT5 screen	Signals auto-pushed to your phone via Telegram
Open many charts to watch many pairs	One EA scans all symbols/timeframes the indicator emits
Fear the EA will trade and blow the account	The EA is read-only, it never trades
Alerts that lack information	Full message with Entry / SL / all TP levels + R:R
Spam when you reopen MT5	A seed mechanism marks old signals as “sent”, no spam
Bot blocked by Telegram for sending too fast	Auto rate-limits and backs off on error 429

Great for: individual traders who want hands-free alerts, signal group/channel managers, or anyone who wants to keep a signal history right inside Telegram.

3. What does the Telegram message look like?

Each signal is formatted as plain text (readable on any device), for example:

```
MoneyTrap Indicator | XAUUSD M5
BUY
Entry : 2345.67
SL    : 2342.00
TP1   : 2349.00 (R:R 1.0R)
TP2   : 2353.00 (R:R 2.0R) (recommended)
TP3   : 2357.00 (R:R 3.0R)
Time  : 2026.06.21 15:30
```



A real signal as it arrives in Telegram

How to read it:

- **First line:** indicator name + Symbol + Timeframe (TF).
- **BUY / SELL:** the trade direction.
- **Entry / SL:** the entry and stop-loss prices.
- **TP1...TP4:** only the **enabled** TP levels are shown. Each carries its **R:R** (reward-to-risk). If a signal has only an SL (no TP), the line reads **TP : -**.
- **(recommended):** the TP level the indicator **recommends** for this signal cell (shown only when the indicator publishes that value).
- **Time:** when the signal triggered.

On startup the EA also sends a short “verify” message ([Signal Telegram Relay online - ...](#)) so you can confirm the correct chat and a working connection.

4. Full feature list — explained in detail

4.1. Multi-symbol, multi-timeframe radar (MTF scan)

The EA traverses **every signal cell** the indicator has emitted (every symbol, every TF). You don't need to open each chart — only the indicator must be running with signal publishing enabled.

4.2. Information-rich messages, listing every TP

The message automatically lists **all enabled TP levels** with R:R and flags the recommended one. Any TP disabled on the indicator simply won't appear — you see exactly what the strategy uses.

4.3. Auto-link by Signal ID

Just set the EA's **Signal ID** equal to the indicator's **Signal ID** (details in section 6). The EA uses a Signal-ID-stamped “heartbeat” to link **instantly**, even when you run several indicators at once. With a single indicator you can leave it at 0 (auto-detect).

4.4. Heartbeat gate — no dead signals

If the indicator is disabled/removed from the chart, its “heartbeat” goes stale. The EA detects this and **stops forwarding all signals** so you never get alerts from a dead source.

4.5. Freshness window

Signals older than the allowed threshold (default 300 seconds) are ignored — you only receive fresh signals and avoid late entries.

4.6. Smart deduplication

Each (timeframe, symbol) pair sends **one message per signal candle, per direction**. If within the same candle there is a reversal (CHoCH flip) from BUY to SELL, the EA **alerts again** because it is a different-direction signal.

4.7. Anti-spam on startup (seed)

When you've just attached or recompiled the EA, it **marks all existing signals as “sent”** before it begins — so you aren't flooded with a burst of old signals.

4.8. Rate control & backoff when throttled (429 backoff)

Telegram limits messages per second. The EA keeps a minimum gap of ~1.1s between messages and **backs off** for exactly the time Telegram requests on an HTTP 429, avoiding a “retry storm” that gets the bot blocked.

4.9. A “ping” confirmation on startup

The EA sends a verify message when attached, and prints the **chat name** it sends to (in the Experts log) so you're sure you pointed at the right channel.

4.10. BUY / SELL filters & per-account filter

Toggle BUY or SELL signals independently. The option **Only relay cells published by THIS account forwards only signals emitted by this very account** (useful when several people share a channel).

4.11. Activation lock + brand lock (free edition)

The EA only runs when the correct **activation key** is entered **and** the linked indicator is one of the author's products. Until valid, a “**LOCKED**” banner shows on the chart and **nothing is sent**.

4.12. Absolute account safety

The EA **does not trade**. All logic runs on a timer, reading global variables and sending WebRequests. When you remove the EA, its on-chart alert objects are cleaned up; the “sent” marks are kept so you aren't spammed on restart.

5. Step-by-step installation

Step 1 — Copy the EA into the right folder

Copy the entire EA folder into `MQL5\Experts\` and compile it there (open the `.mq5` file in MetaEditor, press **F7**). Goal: **0 errors, 0 warnings**.

Step 2 — Allow WebRequest to Telegram

In MT5: **Tools** → **Options** → **Expert Advisors** → **Allow WebRequest for listed URL**, add:

```
https://api.telegram.org
```

Without this step the EA reports a WebRequest `-1` error and cannot send.

Step 3 — Create a Telegram bot and get the Bot Token

- Open Telegram, find **@BotFather**.
- Type `/newbot`, set a name and username for the bot.
- BotFather returns a **Bot Token** like `123456789:ABCdEf...`. Save it — enter it in the **Bot token from @BotFather** field.

SECURITY

Anyone with the token can control the bot. **Do not** share it and do not commit the token into a `.set/.tpl` file.

Step 4 — Get the target Chat ID

- **Personal chat:** message **@userinfobot** to get your ID.
- **Group/Channel:** add your bot to the group/channel, grant send permission, then use `getUpdates` or an ID-bot to get the chat id (groups usually have a leading minus, e.g. `-1001234567890`).

This value goes into the **Target chat id (user/group/channel)** field.

Step 5 — Run the author's indicator (enable publishing)

Attach the indicator to a chart and **enable publishing**: on the Inputs tab set **Send signals to the auto-trade EA** = true. Note the number in the indicator's **Signal ID (EA must use the same)** line — you'll use it for the EA (see section 6).

Step 6 — Attach the EA and fill in the settings

Drag Signal Telegram Relay onto any chart, enable **Allow Algo Trading**, then fill in at least these lines (by the labels shown on the Inputs tab):

- **Activation key (provided by the author)** = the activation key from the author
- **Bot token from @BotFather** = the token from Step 3
- **Target chat id (user/group/channel)** = the chat id from Step 4

- **Signal ID = indicator's "InpScanMagic" (0 = auto-detect) = the indicator's Signal ID number (Step 5)**

Step 7 — Confirm it works

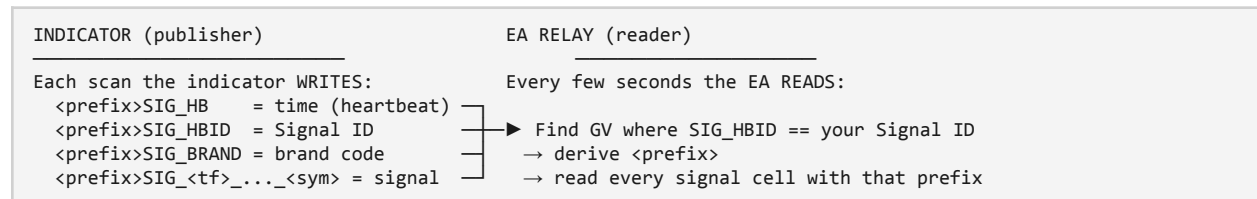
- Check that Telegram received the **“Signal Telegram Relay online - ...”** message.
- Open the **Experts** tab in MT5: you should see **linked: SignalId=... -> prefix=...** and **up:**
- If a **LOCKED** banner shows on the chart → recheck the activation key / indicator.

6. Connecting the EA to the indicator (in detail)

This is the **most important** part — it decides whether the EA receives signals at all. Read it carefully.

6.1. How does the connection work?

The EA and indicator **do not talk directly**. They exchange data through the **terminal's Global Variables (GV)**:



Here **<prefix>** is each indicator's own prefix (e.g. **MTP**). You **don't type** the prefix — the EA derives it from the Signal ID.

CRITICAL CONDITION

GVs are **local to ONE MT5 terminal**. Therefore **the indicator and the EA must run on the SAME MetaTrader 5 terminal** (the same MT5 window / the same VPS instance). Run them on two different terminals → the EA will never see the signals.

6.2. The linking “key”: Signal ID

The link is based on one unique **Signal ID** number. On the **Inputs** tab, match by the **exact description line** (not the variable name):

Side	Input line to find (label shown in MT5)	Requirement
Indicator	Signal ID (EA must use the same)	Note this number down
EA relay	Signal ID = indicator's "InpScanMagic" (0 = auto-detect)	Set it equal to the number above

- Open the indicator's properties → **Inputs** tab → find **Signal ID (EA must use the same)**. Note that number (e.g. 982801).

- Open the EA's properties → “**Signal source**” group → set `Signal ID = indicator's "InpScanMagic" (0 = auto-detect)` equal to that number.

That way the EA latches onto the right indicator **instantly** (via the Signal-ID-stamped heartbeat), even when you run several indicators at once.

6.3. Signal publishing must be enabled on the indicator

On the indicator, on the **Inputs** tab, make sure:

- The `Send signals to the auto-trade EA` line is set to `true`. This is the switch that makes the indicator WRITE the global variables. If left false → the indicator emits nothing → the EA forever reports “*not linked yet*”.
- (Optional) The `Attach per-TP win-rate to published signals (for DangerMonitor)` line set to true if you want the statistics data included.

The indicator must be **attached to a chart and running** (not merely present in the Navigator). It needs to keep “beating its heartbeat” for the EA to consider the source alive.

6.4. The standard connection procedure (4 steps)

1. **Attach the indicator** to a chart, open Inputs, set `Send signals to the auto-trade EA = true`, and note the number in `Signal ID (EA must use the same)` (e.g. 982801).
2. **Attach the EA Signal Telegram Relay** to a chart **in the same terminal**.
3. In the EA, set `Signal ID = indicator's "InpScanMagic" (0 = auto-detect) = 982801` (equal to the number in step 1).
4. Enable **Allow Algo Trading**, click OK. Wait up to a few seconds (per `GV poll interval (sec)`).

6.5. How do I know the link succeeded?

Open the **Experts** tab (Toolbox at the bottom of MT5) and look for log lines:

Success:

```
[Signal Telegram Relay] linked: SignalId=982801 -> prefix=MTP
[Signal Telegram Relay] up: SignalId=982801 poll=5s fresh=300s maxPerPoll=3 ...
```

Not linked:

```
[Signal Telegram Relay] not linked yet - waiting for the indicator's SIG_ GVs ...
```

→ The indicator isn't running / the `Send signals to the auto-trade EA` line isn't enabled / the Signal ID is wrong.

Locked (LOCKED): wrong activation key, or the linked indicator isn't one of the author's products (missing a valid `SIG_BRAND`).

You can also inspect the GV list directly: **Tools** → **Global Variables (F3)**. You'll see variables starting with the indicator's prefix (e.g. `MTPSIG_HB`, `MTPSIG_HBID`, `MTPSIG_M5_BT_XAUUSD...`).

6.6. Running several indicators at once

- Each indicator has a **different Signal ID** → each relay EA sets **Signal ID = indicator's "InpScanMagic" (0 = auto-detect)** to point at one specific indicator.
- **Do not** leave Signal ID = 0 (auto-detect) when several indicators run: auto-detect is only accurate with **exactly one** publishing indicator; with multiple sources the EA logs a request for you to enter a specific ID.
- Want to gather signals from several indicators into the same chat? → attach **several relay EAs**, each with its own Signal ID and the same **Target chat id (user/group/channel)**.

6.7. Related global variables (advanced reference)

Global variable	Writer	Role
<prefix>SIG_HB	Indicator	Heartbeat (timestamp). Older than Ignore ALL signals if heartbeat older than this → the EA skips all signals
<prefix>SIG_HBID	Indicator	= the Signal ID; the EA uses it to link by Signal ID
<prefix>SIG_BRAND	Indicator	Brand code — the EA only runs if it matches (license lock)
<prefix>SIG_<tf>_BT_<sym>	Indicator	Signal-candle timestamp (dedup key)
<prefix>SIG_<tf>_DIR/ENTRY/SL/T1..T4_<sym>	Indicator	Signal details (direction, Entry, SL, the TPs)
<prefix>TG_SEEN_<tf>_<sym>	EA	“Sent” mark for dedup (kept across restarts)

You **do not need** to touch these variables — the table is only to understand the mechanism and to help with diagnostics when needed.

7. Detailed explanation of EVERY EA input

IMPORTANT — HOW TO READ INPUTS

In MT5, on the **Inputs** tab, the left column **does not show the variable name** (like `InpSignalId`) — it shows the **input's description (comment)**, which is the English string you actually see. So the table and explanations below use the **exact displayed description** so you can match them precisely on screen.

The EA has **4 input groups**. The table below lists them by their displayed label + default value.

Label shown in MT5 (Inputs tab)	Group	Default	Meaning
Activation key (provided by the author)	Activation	<i>(empty)</i>	Activation key from the author
Bot token from @BotFather	Telegram	<i>(empty)</i>	Bot Token from @BotFather
Target chat id (user/group/channel)	Telegram	<i>(empty)</i>	Destination chat/group/channel

Label shown in MT5 (Inputs tab)	Group	Default	Meaning
Send a "relay online" verify ping on attach	Telegram	true	Send a confirmation message on startup
Indicator display name ("" = auto from GV prefix, e.g. MTP)	Telegram	(empty)	Indicator name shown in the message
Signal ID = indicator's "InpScanMagic" (0 = auto-detect)	Signal source	0	Signal ID matching the indicator
GV poll interval (sec)	Signal source	5	Polling cycle (seconds)
Signal freshness window (sec); older = ignored	Signal source	300	Signal freshness window (seconds)
Ignore ALL signals if heartbeat older than this	Signal source	180	"Stale heartbeat" threshold (seconds)
Max messages per poll (remainder picked up next poll)	Signal source	3	Max messages per poll
Relay BUY signals	Filter	true	Forward BUY signals
Relay SELL signals	Filter	true	Forward SELL signals
Only relay cells published by THIS account	Filter	false	Only forward signals emitted by this account

“Activation” group

``Activation key (provided by the author)`` — *the activation key from the author.*

The EA only runs with the correct key. Empty or wrong → the EA is **LOCKED**, shows a banner on the chart, and **sends nothing** (not even the ping). This is the companion-edition mechanism: one shared key for all of the author's users.

“Telegram” group

``Bot token from @BotFather`` — *the Bot Token from @BotFather.*

Required. Format `123456789:ABC...`. If left empty, the EA still runs but reports “relay OFF” and sends nothing. The EA masks the token in the log (showing only the last 4 characters) to prevent leaks.

``Target chat id (user/group/channel)`` — *the destination chat (personal / group / channel).*

Required. Where signals are delivered. Groups/channels usually have a long negative number.

``Send a "relay online" verify ping on attach`` — *send a “relay online” message when the EA attaches. (default true)*

When on, the EA sends a verify message at startup to prove that **token + chat id + whitelist** are all correct, and prints the destination chat name in the log. Turn off if you don't want a confirmation message on every restart.

``Indicator display name ("" = auto from GV prefix, e.g. MTP)`` — *the indicator's display name. (default empty)*

Since data passed via global variables is just numbers, the EA **cannot read the full name** of the indicator — it only knows the prefix (e.g. *MTP*). Enter a readable name (e.g. *MoneyTrap*) so messages show *MoneyTrap Indicator* instead of *MTP Indicator*. Leave empty → it uses the prefix.

“Signal source” group

Signal ID = indicator's "InpScanMagic" (0 = auto-detect) — *the Signal ID matching the indicator.* (default 0 = auto-detect)

This is the **most important** parameter for linking the right source. Set it equal to the indicator's **Signal ID** (see 6.2) so the EA latches onto that indicator via its ID-stamped heartbeat — accurate even when running multiple indicators. Leaving 0 works only when **exactly one** indicator publishes; with multiple indicators at 0 → the EA logs a request for you to enter an ID to choose.

GV poll interval (sec) — *global-variable polling cycle (seconds).* (default 5)

The EA checks for new signals every this-many seconds. Smaller = faster response but more resource use. 5 seconds is a good balance for most cases.

Signal freshness window (sec); older = ignored — *freshness window (seconds).* (default 300)

Signals whose trigger time is older than this threshold are **ignored**. Increase it to catch slightly older signals; decrease it for only very fresh signals (faster entries).

Ignore ALL signals if heartbeat older than this — *“stale heartbeat” threshold (seconds).* (default 180)

If the indicator's heartbeat is older than this (the indicator is off/frozen), the EA **ignores ALL signals**. This is a safety valve against alerts from a dead source. Set it larger than the indicator's heartbeat interval to avoid false alarms.

Max messages per poll (remainder picked up next poll) — *max messages per poll.* (default 3)

Caps the messages sent in one poll; the remainder is sent in later polls. This smooths the rate and avoids a burst all at once. Setting it ≤ 0 will **send nothing** (the EA warns).

“Filter (optional)” group

Relay BUY signals — *forward BUY signals.* (default true) Turn off to receive only SELL signals.

Relay SELL signals — *forward SELL signals.* (default true) Turn off to receive only BUY signals.

Only relay cells published by THIS account — *forward only signals emitted by this account.* (default false)

When on, the EA forwards only the signal cells emitted by **the very account running the EA**. Useful when several people share a channel and you want only your own signals. Leave false if the indicator runs on a different account/machine than the EA.

8. Troubleshooting

Symptom	Cause & fix
Chart shows “LOCKED”	Wrong/missing key in Activation key (provided by the author) , or the linked indicator isn't one of the author's products. Enter the correct key and run the correct indicator.
Log shows “not linked yet”	The indicator isn't running or Send signals to the auto-trade EA isn't enabled; or the Signal ID is wrong. Check the indicator is attached + publishing, and set the EA's Signal ID equal to the indicator's.
Ping FAILED	https://api.telegram.org not whitelisted, or wrong token/chat id. Recheck Steps 2–4.
Log HTTP 400/401/403	Token or chat id rejected. Recheck Bot token from @BotFather / Target chat id (user/group/channel) .
Log HTTP 429	Telegram rate-limited you — the EA backs off automatically, no action needed. You may lower Max messages per poll
Multiple indicators running, Signal ID = 0	Set Signal ID to a specific number to pick the right source.
Nothing is sent although everything looks right	Check Max messages per poll ... > 0 , whether both Relay BUY/SELL signals filters are off, and whether the signal is still within Signal freshness window
Backtest sends nothing	By design — the EA is disabled in the Strategy Tester, it runs live/forward only.

9. Frequently Asked Questions (FAQ)

Q. Does this EA enter trades?

A. No. The EA is **read-only** and sends messages. It does not trade, modify orders, or carry a trading magic.

Q. Is it really free?

A. Yes. It is a companion freebie, using one shared activation key, and only forwards signals from indicators released by the author.

Q. Do I need to keep the EA running all day?

A. Yes. The EA must be online (MT5 open, EA on a chart) to continuously scan and send signals. Run it on a VPS for stability.

Q. Can one EA relay signals for many symbols/timeframes?

A. Yes. The EA scans **all** signal cells the indicator emits — you don't need to open each chart.

Q. Can I send to a Telegram channel/group?

A. Yes. Just add the bot to the channel/group, grant send permission, and use the correct chat id of that channel/group.

Q. Is the token safe?

A. The EA masks the token in the log. You keep the token secure yourself: don't share it, don't store it in a public config file.

10. Get the free EA

Signal Telegram Relay is a **free, safe, quick-to-set-up** companion for the author's indicator suite — turning each signal into a tidy Telegram message, complete with Entry/SL/TP.

Contact the author for the EA and the activation key: [MQL5 — Ich Khiem Nguyen](#)

Reminder: copy the EA into `MQL5\Experts\`, whitelist `https://api.telegram.org`, run the indicator with publishing enabled, then fill in `Activation key ...`, `Bot token from @BotFather`, `Target chat id ...` and `Signal ID = ...`. In just 5 minutes signals arrive straight on your phone.

Part of the product documentation set. English edition.